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VIA OVERNIGHT DELIVERY

October 13, 2004

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Clayton Project No. 15-03095.15-001

Subject: **ILR000128249 – Madison County – LPC 1190505040**
The Hartford Area Hydrocarbon Plume Site / Hartford, Illinois
Sentinel Wells Quarterly Monitoring Report – July 2004

Dear Messrs. Turner and Faryan:

Clayton Group Services, Inc., on behalf of the Hartford Working Group (HWG), and in accordance with paragraph 47 of the Administrative Order on Consent, is submitting the Sentinel Wells Quarterly Monitoring Report. This report presents the results of the second quarterly groundwater monitoring activities conducted in Hartford during the week of July 5, 2004.

Please contact me with any questions.

Sincerely,

Monte M. Nienkerk

Monte M. Nienkerk, P.G.
Senior Project Manager
Environmental Services

Encl: Sentinel Wells Quarterly Monitoring Report – July 2004

cc: Hartford Working Group
Dave Webb (Illinois DPH – 1 copy)
Tom Binz (TT EMI / USEPA – 4 copies)
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15-03095.10ca064 / MMN

**Sentinel Wells
Quarterly Monitoring Report
July 2004**

**1190505040 -- Madison County --
ILR000128249**

**The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois**

Prepared for:

**The Hartford Working Group
Hartford, Illinois**

Clayton Project Number 15-03095.15-002
October 12, 2004

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1.0 INTRODUCTION

Clayton Group Services, Inc., on behalf of The Hartford Working Group (HWG), has prepared this monitoring report for the five sentinel wells located within the Village of Hartford, Illinois (Hartford) (Figure 1). The work was done in accordance with the monitoring program developed under Paragraph 47 of the Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency in the Matter of The Hartford Area Hydrocarbon Plume Site (Docket No. R7003-5-04-001). Paragraph 47 of the AOC requires that the five sentinel wells be sampled quarterly for one year. After one year, a groundwater monitoring program will be established consistent with the results of the dissolved phase groundwater investigation. Paragraph 47 of the AOC also requires the work to be completed in accordance with the Sentinel Wells Work Plan, dated October 16, 2003, and approved by the United States Environmental Protection Agency (USEPA) on November 21, 2003.

This report presents the results of the second quarter groundwater monitoring activities conducted in Hartford during the week of July 5, 2004. Clayton also completed a comprehensive well gauging event in Hartford during the week of July 12, 2004. The well gauging, with the cooperation of Shell Oil Products US (Shell) and The Premcor Refining Group Inc. (Premcor), was extended to include the Shell Rand Avenue site, the Shell Tannery Property, and the Premcor property.

The five wells, HMW-25 through HMW-29, were installed to serve as sentinels for monitoring of the possible encroachment upon the Hartford Well Head Protection Area (WHPA) (McGuire et al., 2001) of the identified free-phase petroleum hydrocarbon (FPH) and dissolved phase plumes located within the northern portion of Hartford. The WHPA is the surface area near the two active Hartford municipal water supply wells that may provide recharge to the aquifer over a five-year period. The sentinel wells were

placed at a distance that represents an approximate two-year travel time to the WHPA boundary (Clayton 2003). Figure 2 shows the location of the sentinel wells, the Hartford municipal water supply wells, and the WHPA.

2.0 WELL GAUGING

Clayton completed a comprehensive well gauging event in Hartford during the week of July 12, 2004. This event was conducted at all of the remaining accessible monitoring wells in Hartford that could be located by Clayton and also included the sentinel wells (HMW-25 through HMW-29). The sentinel wells were also inspected at this time to evaluate the continued suitability of the well for both gauging and groundwater monitoring. The well gauging, with the cooperation of Shell and Premcor, was extended to include the remaining accessible groundwater monitoring wells at the Shell Rand Avenue site and the Shell Tannery Property (Shell SP- and P-series wells) and those installed on the Premcor property (Premcor RB-series wells). The Shell Rand Avenue site is located immediately to the northeast and east of the north half of Hartford while the Premcor facility is immediately east of the central portion of Hartford.

The hydrogeology in the vicinity of north Hartford consists of four hydrostratigraphic units identified in descending order as the North Olive Stratum, the Rand Stratum, and the EPA Stratum, all of which overlie the Main Sand (Clayton 2004a). The sentinel wells are located in the Main Sand. At the time of this gauging event, no existing wells were known to be appropriately screening the North Olive Stratum to enable gauging and the determination of groundwater flow (if any) within this stratum. Similarly, no existing wells within Hartford were known to be appropriately screening the Rand Stratum to enable gauging and the determination of groundwater flow within this stratum in Hartford. The inclusion of the Shell wells provided gauging and groundwater flow data for the Rand (beyond the Hartford boundaries) and EPA Strata and additional data for the

Main Sand. Likewise, the inclusion of the Premcor wells provided additional gauging and groundwater flow data for the Main Sand (beyond the Hartford boundaries).

The well gauging event was conducted to identify the presence of FPH, measure apparent FPH thickness in wells (if any), and determine groundwater flow directions. The apparent product thickness (where present) measurements were also used to calculate the piezometric surface elevations. Groundwater and FPH gauging data in Hartford from July 2004 and prior data obtained quarterly in 2004 are summarized in Table 1. Tables 2 and 3 provide the results of the quarterly monitoring well gauging for the Shell wells and the wells on the Premcor facility, respectively.

The results of the monitoring well inspections are included in Appendix A. The sentinel wells were determined to be in satisfactory condition for continued use in the monitoring program.

Groundwater flow maps were constructed for the July 2004 gauging event for three of the identified hydrostratigraphic units (Main Sand, EPA Stratum, and Rand Stratum). Clayton (2004a) presented the evaluation of wells appropriate for gauging each of these strata with the exception of recently installed multi-phase pilot test wells/probes HMW-30 through 37, MP-25 through 28, RW-4, RW-4A, and RW-5. Based on the test purpose and the designed screened intervals (screening more than one hydrostratigraphic unit), these new wells/probes are not appropriate for groundwater monitoring of any of the identified hydrostratigraphic units. The flow maps are presented in Figures 3 through 5, respectively.

Clayton also completed an apparent product thickness evaluation during this gauging event. This information has been presented simply as a measurement of apparent FPH thickness (if any) at the wells (Tables 1 through 3). No FPH was detected in any Shell

wells in the Rand and EPA Strata or the Main Sand. Therefore, one map was prepared of the FPH measured in wells screened in both the EPA Stratum and the Main Sand within Hartford. This map, presented in Figure 6, includes the EPA Stratum based on the limited areal extent of this stratum within Hartford.

The July 2004 groundwater flow map of the Main Sand (Figure 3) indicates the flow direction is generally northeasterly. This flow direction is generally consistent with the January and April 2004 groundwater flow maps of the Main Sand and historical interpretations provided by others. The July 2004 groundwater flow maps of both the EPA Stratum and the Rand Stratum are more limited based on the limited known areal extent of these respective strata.

The July 2004 groundwater flow map (Figure 4) of the EPA Stratum indicates a groundwater divide that trends along a general east/west axis. The identified axis is located slightly east of the intersection of East Rand Avenue and North Olive Street. The flow to the north of this axis is generally northerly, while the flow to the south of the axis is southwesterly. Evidence of this hinge was also apparent in the April 2004 groundwater flow map of the EPA Stratum. The southwesterly flow direction, south of the axis, is consistent with the January and April 2004 groundwater flow map of the EPA Stratum. Groundwater flow direction in the EPA Stratum has been determined by others to be to the northeast the majority of the time, with episodic flow reversals to the southwest. Additional data generated from the further investigative work being conducted under the AOC will refine the understanding of groundwater flow and direction in the EPA Stratum.

The Rand Stratum (Figure 5) groundwater flow direction is generally northeasterly. The flow direction is consistent with the January and April 2004 groundwater flow maps of the Rand Stratum.

3.0 GROUNDWATER SAMPLE COLLECTION

The sentinel well sampling was conducted on July 7, 2004. Groundwater samples were collected in laboratory-supplied, pre-preserved (if appropriate) containers, using the low flow sampling technique (Clayton, 2004b) from the five sentinel monitoring wells (HMW-25 through HMW-29). Dedicated bladders and polypropylene tubing were used at each well during purging and sampling to prevent cross-contamination.

The low-flow sampling technique resulted in the removal of approximately one gallon of water at each sentinel well prior to sample collection. The groundwater removed from each well was temporarily stored in a double-walled tank located in a secure area within Hartford before removal by a waste disposal contractor. Water quality parameters of temperature, pH, oxidation reduction potential, dissolved oxygen, turbidity, and specific conductivity were electronically measured and recorded using a calibrated Mini-Troll with an associated Pocket PC (in addition to the field logbook) during purging and prior to sample collection. The downloaded data logger indicator parameter records for the July 2004 event are included in Appendix B.

The samples were collected directly from the low flow equipment into laboratory-supplied containers. After collection, samples were immediately labeled, placed in a cooler containing ice, and were delivered under chain-of-custody procedures to Teklab, Inc. (Teklab) of Collinsville, Illinois for laboratory analysis.

The samples were analyzed for the "Skinner List" as identified in the AOC. Specifically, the samples were analyzed for the following parameters: volatile organic compounds (VOCs) (including methyl tertiary butyl ether [MTBE] and ethylene dibromide [EDB]) using USEPA Methods 5030/8260B; 1,4-dioxane using USEPA Method 8015 modified; semi-volatile organic compounds (SVOCs) using USEPA Methods 3510C, 8270C;

metals using USEPA Methods 7470A; 3005A, 6010B; 3020A, 7041; 3020A, 7060A; 3020A, 7421; and 3020A, 7740; and cyanide using USEPA Method 9010, 9012A.

The "Skinner List" of parameters, the practical quantitation limits, and the analytical methods are presented in Table 4. The containers with applicable preservation requirements (if appropriate) for each parameter are presented in Table 5.

4.0 GROUNDWATER ANALYTICAL RESULTS

Sample analytical results from July 2004 indicate that none of the groundwater samples from the five sentinel wells contained parameters that are above the 35 Illinois Administrative Code (IAC) Part 742, Tiered Approach to Corrective Action Objectives (TACO). An evaluation of the Quality Assurance/Quality Control (QA/QC) samples from this sampling event did not reveal any concerns.

Based on the July 2004 groundwater analytical results, the sentinel wells have not been impacted by the identified FPH or dissolved phase plumes underlying the northern portion of Hartford. This evaluation is based on the absence of concentrations of petroleum hydrocarbon constituents above applicable TACO Class I Groundwater Remediation Objectives (GROs). It is also based upon the groundwater flow mapping of the Main Sand that shows flow in the northern portion of Hartford is to the north, away from the Hartford WHPA and the Hartford municipal water supply wells.

Table 6 presents the laboratory analytical results for the July 2004, April 2004, and the December 2003 sampling events. The July 2004 laboratory analytical report from Teklab is included in Appendix C.

5.0 FUTURE ACTIVITIES

As required by Paragraph 47 of the AOC, the next (third quarter) sampling event, to be scheduled during October or November 2004, will be conducted in accordance with the Sentinel Wells Work Plan, dated October 16, 2003, and approved by the USEPA on November 21, 2003. A comprehensive well gauging event will also be conducted for the Hartford, Shell, and Premcor groundwater monitoring wells.

6.0 REFERENCES

Clayton Group Services, Inc., October 16, 2003. *Conceptual Site Model, Village of Hartford Work Plan*, Hartford, Illinois (aka *Sentinel Wells Work Plan*).

Clayton Group Services, Inc., April 8, 2004a. *FPH CPT/ROST™ Subsurface Investigation Report and FPH Monitoring Well and Soil Sampling Plan for the Village of Hartford, Illinois.*

Clayton Group Services, Inc., January 7, 2004b. *Investigation Plan to Define the Extent of Free Phase and Dissolved Phase Hydrocarbons in the Village of Hartford, Illinois.*

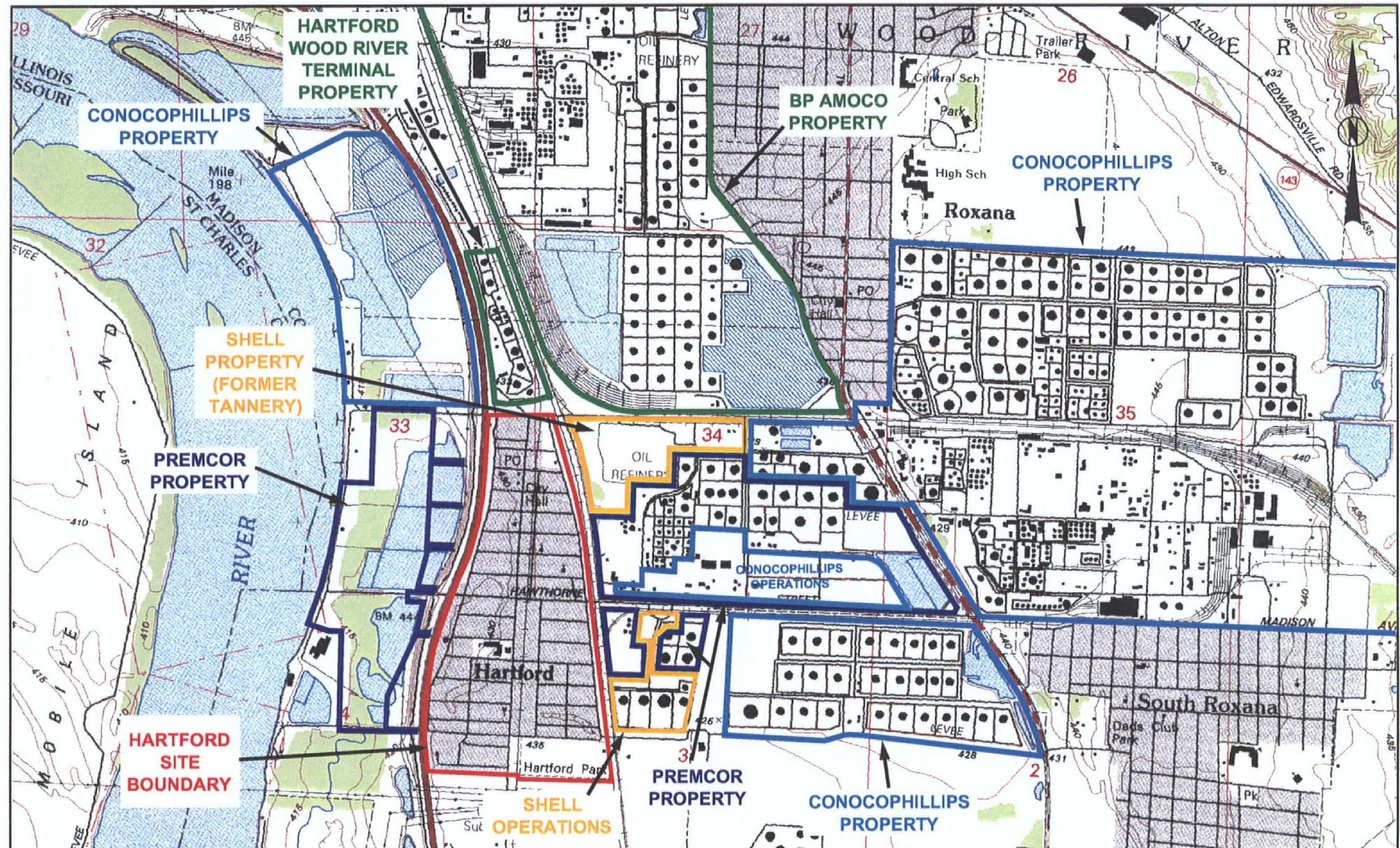
Illinois Pollution Control Board, 1997a. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742*. Adopted rule, Final Order June 5, 1997. Last amended February 2002.

McGuire, M., J. Keller, K. Miller, and S. Esling, 2001. *Delineation of a Well Head Protection Area Hartford, Illinois*

United States Environmental Protection Agency, Region 5, Chicago, Illinois. *In the Matter of the Hartford Area Hydrocarbon Plume Site*. (Docket No. R7003-5-04-001).

Figures

FIGURES



** NOT TO SCALE **

SOURCE:

USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP
(WOOD RIVER, ILL.-MO. - rev.1994)

CHK BY	
DWN BY	BCP
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PRJ NO.	15-03095.12

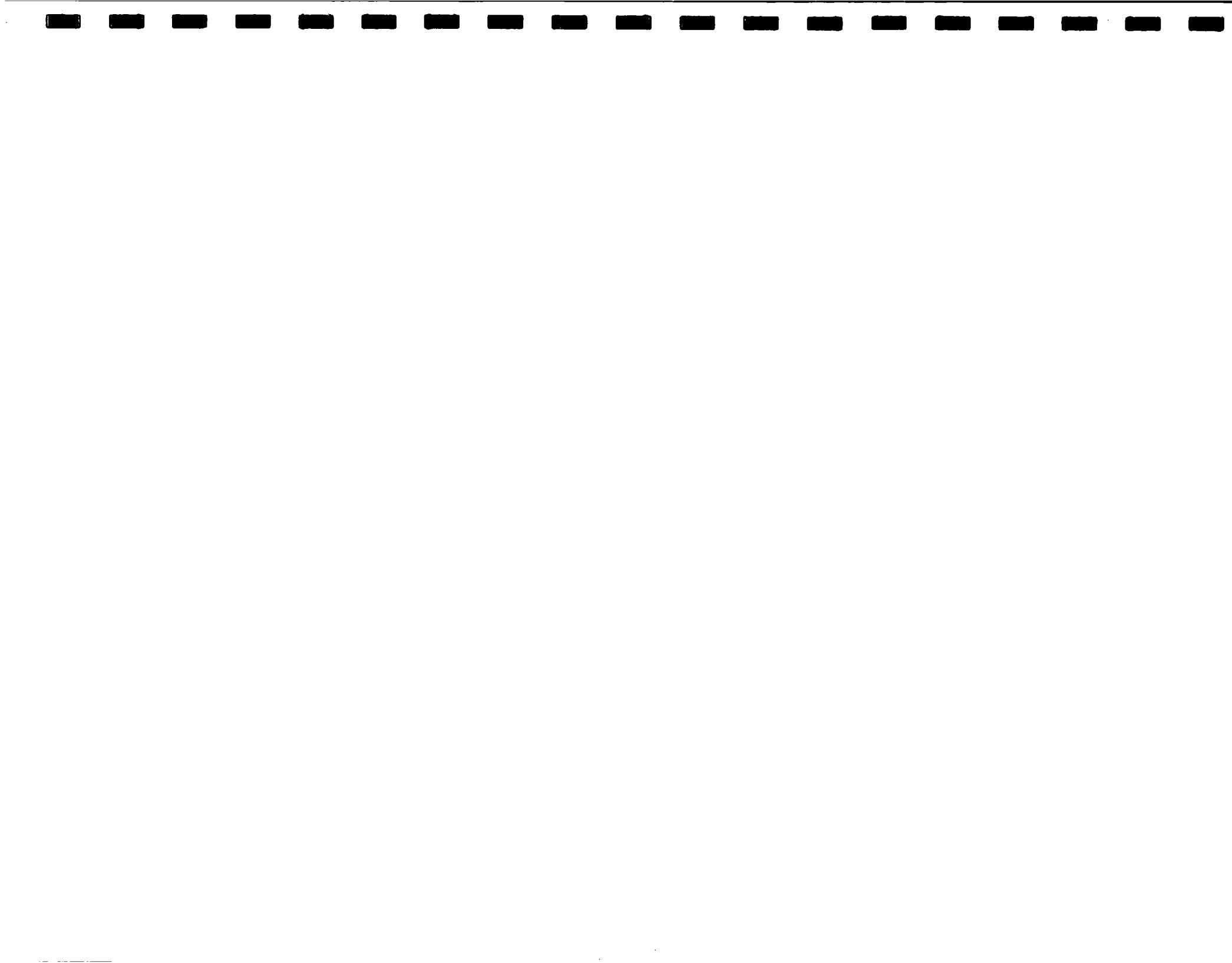
VILLAGE OF HARTFORD, IL AND
SURROUNDING AREA MAP

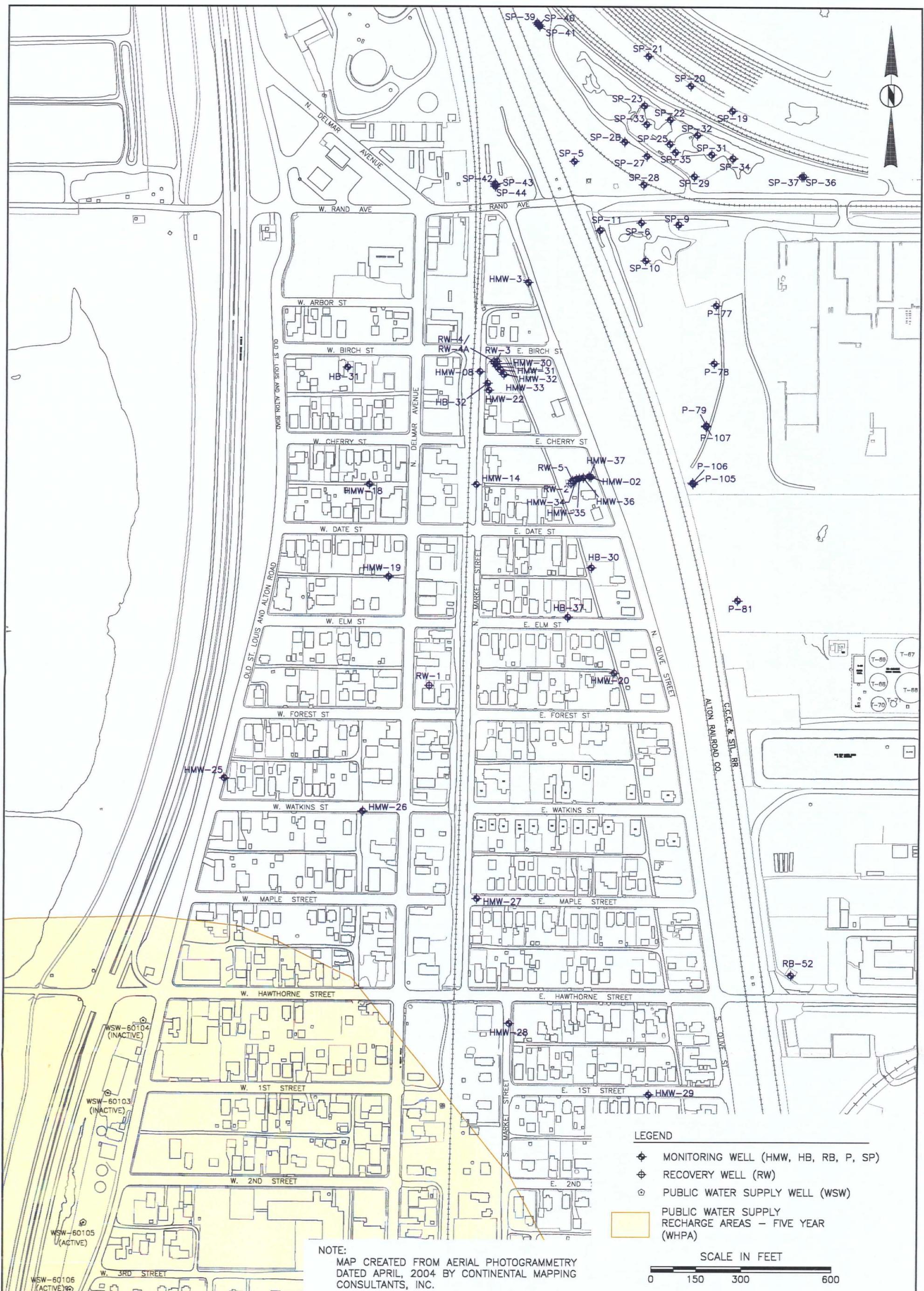
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS



FIGURE

1





CHECK BY KDC
DRAWN BY BCP
DATE 9-27-04
SCALE AS SHOWN
CAD NO. 0309507e_
PRJ NO. 15-03095

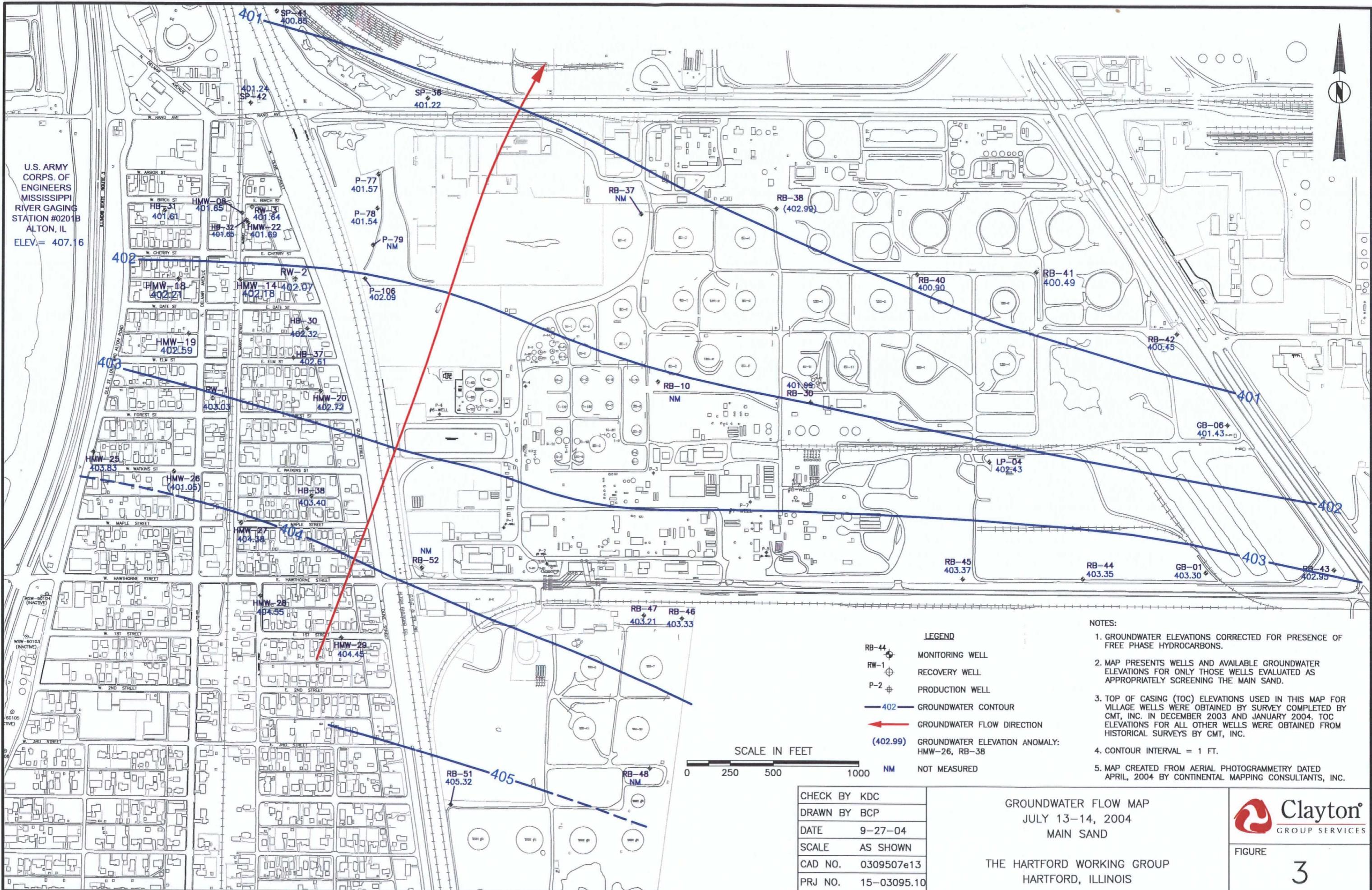
NORTH HARTFORD SITE MAP
VILLAGE OF HARTFORD, IL

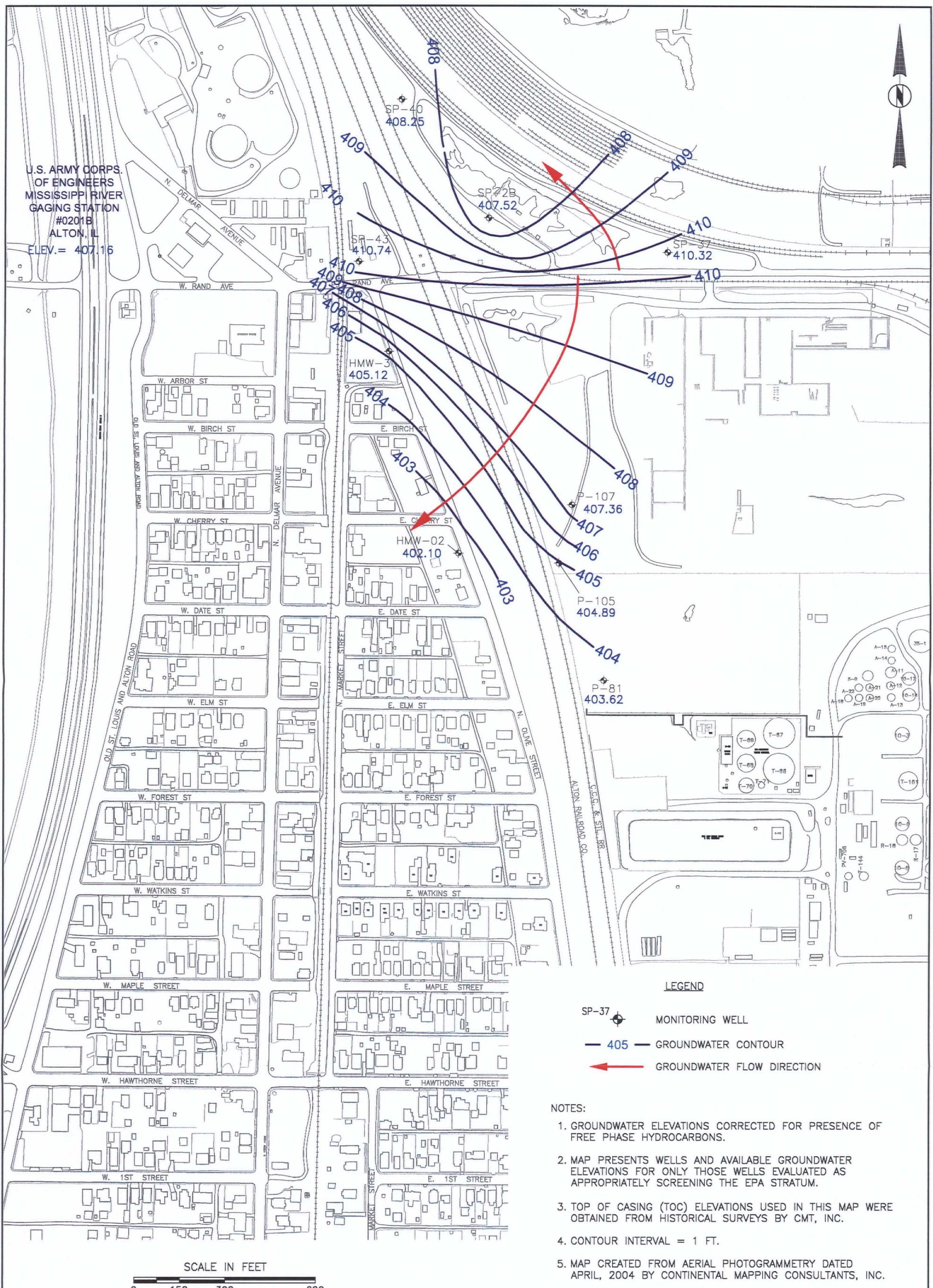
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS



FIGURE

2





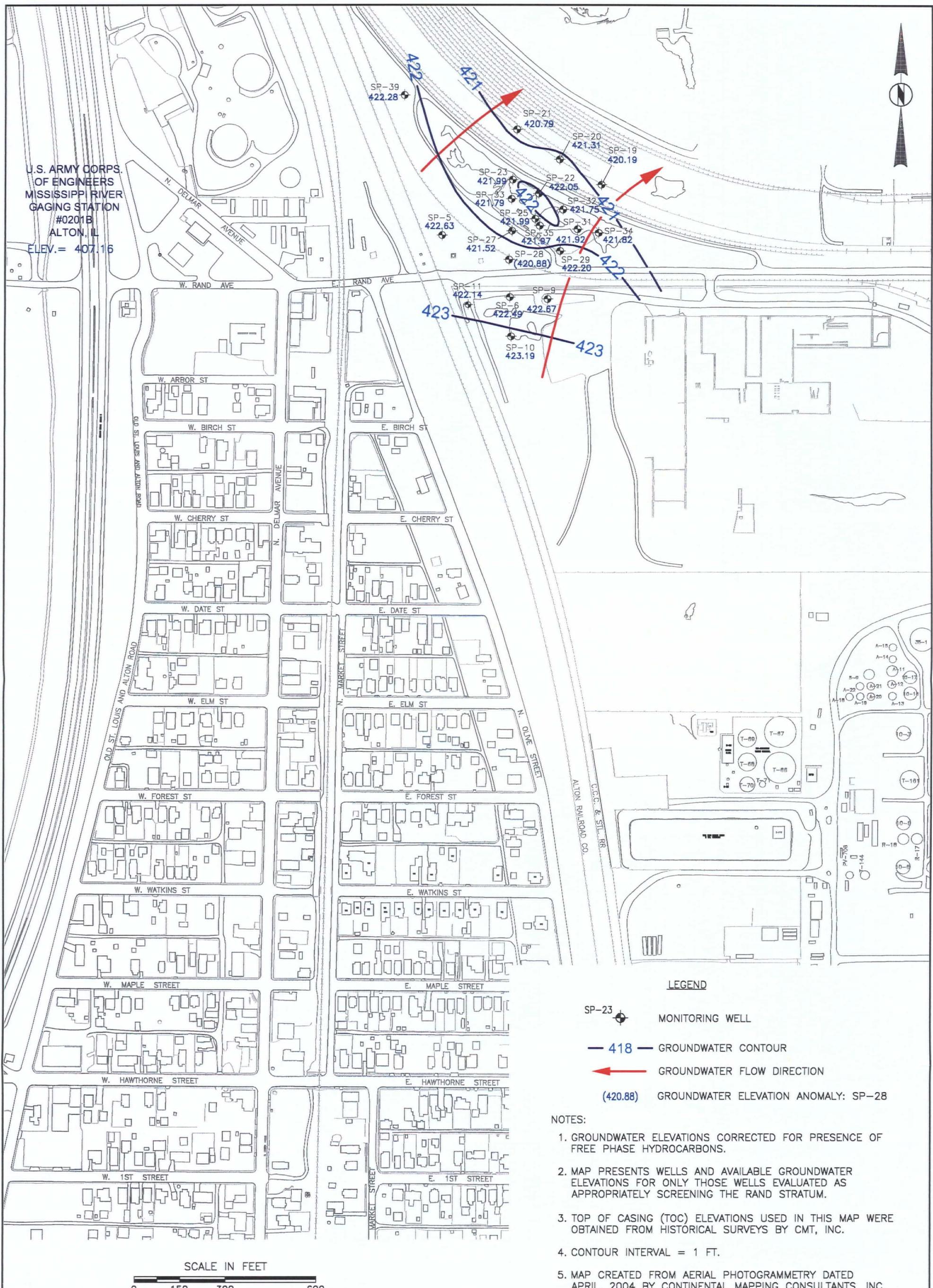
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DATE 9-27-04
SCALE AS SHOWN
CAD NO. 0309507e11
PRJ NO. 15-03095

GROUNDWATER FLOW MAP
JULY 13-14, 2004 - EPA STRATUM

THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

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FIGURE



CHECK BY KDC
DRAWN BY BCP
DATE 9-27-04
SCALE AS SHOWN
CAD NO. 0309507e12
PRJ NO. 15-03095

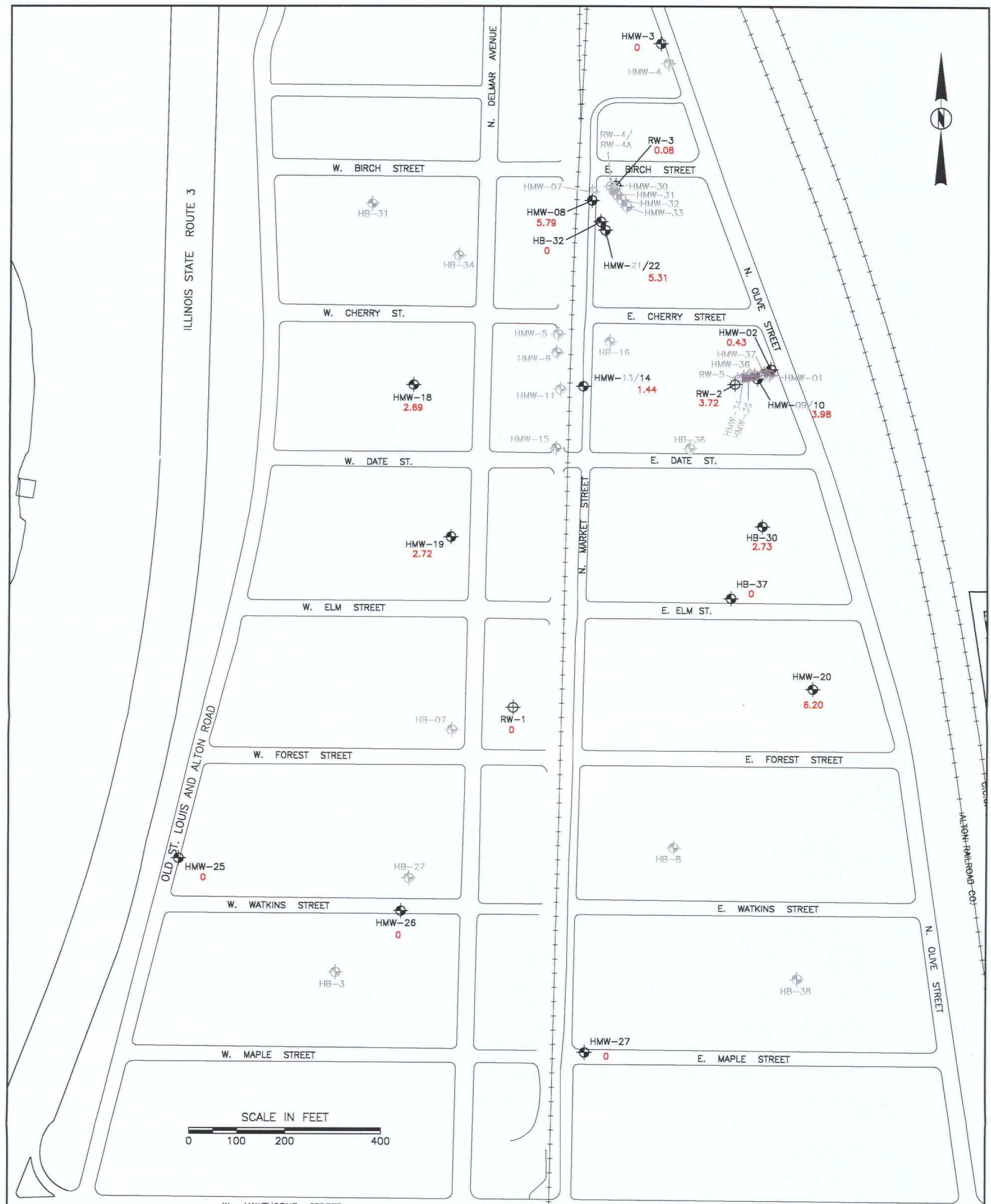
GROUNDWATER FLOW MAP
 JULY 13-14, 2004 – RAND STRATUM

THE HARTFORD WORKING GROUP
 HARTFORD, ILLINOIS

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FIGURE

5



LEGEND

- 1.14 APPARENT PRODUCT THICKNESS (FEET)
- MP SOIL VAPOR MONITORING PROBE (MP)
- HMW MONITORING WELL (HMW, HB)
- VCB VAPOR CONTROL BORING (VCB)
- RW RECOVERY WELL (RW)

APPARENT FPH PRODUCT THICKNESS MAP
JULY 13-14, 2004
MAIN/EPA SAND
VILLAGE OF HARTFORD
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS



FIGURE

6

CHECK BY KDC
DRAWN BY BCP
DATE 7-30-04
SCALE AS SHOWN
CAD NO. 0309506m2
PRJ NO. 15-03095

Tables

TABLES

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
IEPA-4	01/27/04	--	--	--	--	--	--	--
	04/20/04	430.35	30.35	31.71	400.00	398.64	1.36	399.69
	07/14/04	430.35	27.68	29.92	402.67	400.43	2.24	402.15
HB-07 ²	01/27/04	432.32	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
	07/14/04	432.32	--	--	--	--	--	--
HB-16 ³	01/27/04	431.42	--	--	--	--	--	--
	04/20/04	431.42	32.15	32.86	399.27	398.56	0.71	399.11
	07/14/04	431.42	--	--	--	--	--	--
HB-27 ²	02/18/04	425.83	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
	07/14/04	425.83	--	--	--	--	--	--
HB-30	01/27/04	431.08	--	--	--	--	--	--
	04/20/04	431.08	31.03	32.25	400.05	398.83	1.22	399.77
	07/14/04	431.08	28.13	30.86	402.95	400.22	2.73	402.32
HB-31 ³	01/27/04	431.49	NA	35.43	NA	396.06	0	396.06
	04/21/04	431.49	NA	33.25	NA	398.24	0	398.24
	07/14/04	431.49	NA	29.88	NA	401.61	0	401.61
HB-32	01/27/04	433.33	NA	36.94	NA	396.39	0	396.39
	04/20/04	433.33	NA	34.59	NA	398.74	0	398.74
	07/14/04	433.33	NA	31.68	NA	401.65	0	401.65
HB-33	01/27/04	430.23	--	--	--	--	--	--
	04/21/04	430.23	NA	29.48	NA	400.75	0	400.75
	07/14/04	430.23	NA	26.23	NA	404.00	0	404.00
HB-37	01/27/04	431.77	33.94	34.27	397.83	397.50	0.33	397.75
	04/21/04	431.77	NA	32.03	NA	399.74	0	399.74
	07/14/04	431.77	NA	29.16	NA	402.61	0	402.61
HB-38	01/27/04	429.92	--	--	--	--	--	--
	04/21/04	429.92	NA	29.36	NA	400.56	0	400.56
	07/14/04	429.92	NA	26.52	NA	403.40	0	403.40

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
HMW-01	01/27/04	429.97	NA	19.78	NA	410.19	0	410.19
	04/20/04	429.97	NA	19.50	NA	410.47	0	410.47
	07/14/04	429.97	NA	19.84	NA	410.13	0	410.13
HMW-02	01/27/04	429.65	32.11	32.88	397.54	396.77	0.77	397.36
	04/20/04	429.65	29.96	30.65	399.69	399.00	0.69	399.53
	07/14/04	429.65	27.45	27.88	402.2	401.77	0.43	402.10
HMW-03	01/27/04	428.72	NA	28.61	NA	400.11	0	400.11
	04/20/04	428.72	NA	26.60	NA	402.12	0	402.12
	07/14/04	428.72	NA	23.60	NA	405.12	0	405.12
HMW-04	01/27/04	428.96	10.93	10.94	418.03	418.02	0.01	418.03
	04/20/04	428.96	NA	12.01	NA	416.95	0	416.95
	07/14/04	428.96	NA	8.84	NA	420.12	0	420.12
HMW-07	01/27/04	429.12	NA	24.76	NA	404.36	0	404.36
	04/20/04	429.12	NA	24.49	NA	404.63	0	404.63
	07/14/04	429.12	NA	22.60	NA	406.52	0	406.52
HMW-08	01/27/04	429.74	32.85	34.15	396.89	395.59	1.30	396.59
	04/20/04	429.74	30.43	32.86	399.31	396.88	2.43	398.75
	07/14/04	429.74	26.76	32.55	402.98	397.19	5.79	401.65
HMW-09	01/27/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	07/14/04	430.23	NA	23.19	NA	407.04	0	407.04
HMW-10	01/27/04	430.20	32.57	34.17	397.63	396.03	1.60	397.26
	04/20/04	430.20	30.47	31.76	399.73	398.44	1.29	399.43
	07/14/04	430.20	27.18	31.16	403.02	399.04	3.98	402.10
HMW-13	01/27/04	430.81	NA	18.67	NA	412.14	0	412.14
	04/20/04	430.81	NA	18.70	NA	412.11	0	412.11
	07/14/04	431.81	NA	18.68	NA	413.13	0	413.13

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
HMW-14	01/27/04	430.86	33.63	34.96	397.23	395.90	1.33	396.92
	04/20/04	430.86	31.43	32.44	399.43	398.42	1.01	399.20
	07/14/04	430.86	28.35	29.79	402.51	401.07	1.44	402.18
HMW-18	01/27/04	431.58	34.55	36.12	397.03	395.46	1.57	396.67
	04/21/04	431.58	32.61	33.06	398.97	398.52	0.45	398.87
	07/14/04	431.58	28.75	31.44	402.83	400.14	2.69	402.21
HMW-19	01/27/04	431.80	34.90	35.72	396.90	396.08	0.82	396.71
	04/21/04	431.80	32.29	33.29	399.51	398.51	1.00	399.28
	07/14/04	431.80	28.58	31.30	403.22	400.50	2.72	402.59
HMW-20	01/27/04	430.65	32.91	33.86	397.74	396.79	0.95	397.52
	04/21/04	430.65	30.00	33.31	400.65	397.34	3.31	399.89
	07/14/04	430.65	26.50	32.70	404.15	397.95	6.20	402.72
HMW-21	01/27/04	430.05	NA	21.93	NA	408.12	0	408.12
	04/20/04	430.05	NA	21.42	NA	408.63	0	408.63
	07/14/04	430.05	NA	19.38	NA	410.67	0	410.67
HMW-22	01/27/04	430.15	33.20	35.00	396.95	395.15	1.80	396.54
	04/20/04	430.15	31.25	31.42	398.9	398.73	0.17	398.86
	07/14/04	430.15	27.24	32.55	402.91	397.60	5.31	401.69
HMW-25	01/27/04	427.45	NA	29.96	NA	397.49	0	397.49
	04/21/04	427.45	NA	27.34	NA	400.11	0	400.11
	07/14/04	427.45	NA	23.62	NA	403.83	0	403.83
HMW-26	01/27/04	425.20	NA	27.15	NA	398.05	0	398.05
	04/21/04	425.20	NA	24.64	NA	400.56	0	400.56
	** 7/14/2004	425.20	NA	24.15	NA	401.05	0	401.05
HMW-27	01/27/04	430.75	NA	32.21	NA	398.54	0	398.54
	04/22/04	430.75	NA	29.90	NA	400.85	0	400.85
	07/14/04	430.75	NA	26.37	NA	404.38	0	404.38

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
HMW-28	01/27/04	430.97	NA	32.05	NA	398.92	0	398.92
	04/21/04	430.97	NA	29.69	NA	401.28	0	401.28
	07/14/04	430.97	NA	26.42	NA	404.55	0	404.55
HMW-29	01/27/04	429.99	NA	30.64	NA	399.35	0	399.35
	04/21/04	429.99	NA	28.70	NA	401.29	0	401.29
	07/14/04	429.99	NA	25.54	NA	404.45	0	404.45
HMW-30	04/20/04	430.07	NA	31.29	NA	398.78	0	398.78
	07/14/04	430.07	NA	28.38	NA	401.69	0	401.69
HMW-31	04/20/04	430.09	NA	31.27	NA	398.82	0	398.82
	07/14/04	430.09	NA	28.41	NA	401.68	0	401.68
HMW-32	04/20/04	430.01	NA	31.11	NA	398.90	0	398.90
	07/14/04	430.01	NA	27.38	NA	402.63	0	402.63
HMW-33	04/20/04	430.13	NA	31.27	NA	398.86	0	398.86
	07/14/04	430.13	28.49	28.79	401.64	401.34	0.3	401.57
HMW-34	07/14/04	--	28.82	30.77	--	--	1.95	--
HMW-35	07/14/04	--	NA	27.78	--	--	0	--
HMW-36	07/14/04	--	26.60	31.71	--	--	5.11	--
HMW-37	07/14/04	--	27.13	28.78	--	--	1.65	--
RW-1	01/27/04	433.78	NA	36.18	NA	397.60	0	397.60
	04/21/04	433.78	NA	33.93	NA	399.85	0	399.85
	07/14/04	433.78	NA	30.75	NA	403.03	0	403.03
RW-2	01/27/04	431.99	34.39	35.95	397.60	396.04	1.56	397.24
	04/20/04	431.99	32.28	33.68	399.71	398.31	1.40	399.39
	07/14/04	431.99	29.06	32.78	402.93	399.21	3.72	402.07
RW-3	01/27/04	433.35	36.46	38.30	396.89	395.05	1.84	396.47
	04/20/04	433.35	34.34	35.48	399.01	397.87	1.14	398.75
	07/14/04	433.35	31.69	31.77	401.66	401.58	0.08	401.64
RW-4	01/27/04	429.65	--	--	--	--	--	--

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RW-4A*	04/20/04	429.65	--	--	--	--	--	--
	07/14/04	429.65	NA	27.79	NA	401.86	0	401.86
RW-5	01/27/04	--	--	--	--	--	--	--
	04/20/04	--	--	--	--	--	--	--
	07/14/04	--	26.76	32.84	--	--	6.08	--
MP-5S	01/27/04	--	--	--	--	--	--	--
	04/20/04	--	--	--	--	--	--	--
	07/14/04	--	26.23	29.30	--	--	3.07	--
MP-5D	01/27/04	429.83	NA	9.26	NA	420.57	0	420.57
	04/20/04	429.83	NA	DRY	--	--	0	--
	07/14/04	429.83	--	--	--	--	--	--
MP-6S	01/27/04	430.09	NA	21.33	NA	408.76	0	408.76
	04/20/04	430.09	NA	20.38	NA	409.71	0	409.71
	07/14/04	430.09	--	--	--	--	--	--
MP-6D	01/27/04	430.15	NA	DRY	--	--	0	--
	04/20/04	430.15	NA	DRY	--	--	0	--
	07/14/04	430.15	--	--	--	--	--	--
MP-7S	01/27/04	430.13	NA	21.31	NA	408.82	0	408.82
	04/20/04	430.13	NA	20.40	NA	409.73	0	409.73
	07/14/04	430.13	--	--	--	--	--	--
MP-7D	01/27/04	430.17	NA	7.21	NA	422.96	0	422.96
	04/20/04	430.17	NA	5.41	NA	424.76	0	424.76
	07/14/04	430.17	--	--	--	--	--	--
MP-8S	01/27/04	430.16	NA	21.38	NA	408.78	0	408.78
	04/20/04	430.16	NA	20.64	NA	409.52	0	409.52
	07/14/04	430.16	--	--	--	--	--	--

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
	04/20/04	430.20	NA	DRY	--	--	0	--
	07/14/04	430.20	--	--	--	--	--	--
MP-8D	01/27/04	430.14	--	--	--	--	--	--
	04/21/04	430.14	21.64	21.73	408.50	408.41	0.09	408.48
	07/14/04	430.14	19.63	19.66	410.51	410.48	0.03	410.50
MP-9S	01/27/04	430.05	NA	8.19	NA	421.86	0	421.86
	04/20/04	430.05	NA	7.76	NA	422.29	0	422.29
	07/14/04	430.05	NA	4.32	NA	425.73	0	425.73
MP-9D	01/27/04	430.00	21.40	21.41	408.60	408.59	0.01	408.60
	04/21/04	430.00	20.89	20.90	409.11	409.10	0.01	409.11
	07/14/04	430.00	18.72	19.92	411.28	410.08	1.20	411.00
MP-10S	01/27/04	430.53	NA	DRY	--	--	0	--
	04/21/04	430.53	NA	DRY	--	--	0	--
	07/14/04	430.53	NA	DRY	--	--	0	--
MP-10D	01/27/04	430.37	NA	19.70	NA	410.67	0	410.67
	04/21/04	430.37	NA	19.27	NA	411.10	0	411.10
	07/14/04	430.37	NA	17.62	NA	412.75	0	412.75
MP-11S	01/27/04	431.19	NA	DRY	--	--	0	--
	04/21/04	431.19	NA	DRY	--	--	0	--
	07/14/04	431.19	NA	DRY	--	--	0	--
MP-11D	01/27/04	431.19	NA	19.82	NA	411.37	0	411.37
	04/21/04	431.19	NA	19.62	NA	411.57	0	411.57
	07/14/04	431.19	NA	17.87	NA	413.32	0	413.32
MP-12S	01/27/04	431.70	--	--	--	--	--	--
	04/21/04	431.70	NA	DRY	--	--	0	--
	07/14/04	431.70	NA	DRY	--	--	0	--
MP-12D	01/27/04	431.63	--	--	--	--	--	--

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
	04/21/04	431.63	NA	19.50	NA	412.13	0	412.13
	07/14/04	431.63	NA	17.95	NA	413.68	0	413.68
MP-13S	01/27/04	429.20	NA	7.97	NA	421.23	0	421.23
	04/21/04	429.20	NA	8.38	NA	420.82	0	420.82
	07/14/04	429.20	NA	7.84	NA	421.36	0	421.36
MP-13D	01/27/04	429.30	NA	DRY	--	--	0	--
	04/21/04	429.30	NA	DRY	--	--	0	--
	07/14/04	429.30	NA	26.20	NA	403.10	0	403.10
MP-14S	01/27/04	429.51	--	--	--	--	--	--
	04/21/04	429.51	NA	9.04	NA	420.47	0	420.47
	07/14/04	429.51	NA	8.17	NA	421.34	0	421.34
MP-14D	01/27/04	429.51	--	--	--	--	--	--
	04/21/04	429.51	NA	DRY	--	--	0	--
	07/14/04	429.51	NA	DRY	--	--	0	--
MP-15S	01/27/04	429.63	NA	6.01	NA	423.62	0	423.62
	04/21/04	429.63	NA	9.04	NA	420.59	0	420.59
	07/14/04	429.63	NA	DRY	--	--	0	--
MP-15D	01/27/04	429.58	--	--	--	--	--	--
	04/21/04	429.58	NA	DRY	--	--	0	--
	07/14/04	429.58	NA	DRY	--	--	0	--
MP-16S	01/27/04	429.75	--	--	--	--	--	--
	04/21/04	429.75	NA	DRY	--	--	0	--
	07/14/04	429.75	NA	DRY	--	--	0	--
MP-16D	01/27/04	429.77	NA	DRY	--	--	0	--
	04/21/04	429.77	NA	DRY	--	--	0	--
	07/14/04	429.77	NA	DRY	--	--	0	--
MP-25	07/14/04	--	NA	26.48	--	--	0	--

TABLE 1
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-26	07/14/04	--	NA	25.37	--	--	0	--
MP-27	07/14/04	--	26.16	26.68	--	--	0.52	--
MP-28	07/14/04	--	--	--	--	--	--	--

NOTES:

NA = Not Applicable

-- = No data

* = Well contains product recovery pump

** = Depth to water anomaly

SG = Specific gravity of hydrocarbon determined to be an average of 0.77 in the Village for data recorded during and after 09/03.

¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

² HB-07 is obstructed at approximately 9 ft below top of casing (TOC); HB-27 is obstructed at approximately 14 ft below TOC.

³ Located on private property. Access requires permission of owner; therefore, data may not be available for all gauging events.

MP-5 through 28 installed as vacuum monitoring probes by Clayton in 7/03 and are not appropriate for determining groundwater flow.

HMW-25 through HMW-29 installed by Clayton in 12/03.

HMW-30 through 37 and RW-4 through 5 installed as pilot test wells by Clayton in 2004 and are not appropriate for determining groundwater flow.

Remaining wells installed by others.

TOC elevations surveyed to USGS datum by CMT.

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
P-47	01/27/04	428.20	NA	33.53	NA	394.67	0	394.67
	04/20/04	428.20	NA	31.90	NA	396.30	0	396.30
P-51	01/27/04	426.62	NA	32.25	NA	394.37	0	394.37
	04/20/04	426.62	NA	30.57	NA	396.05	0	396.05
P-76	01/28/04	433.28	NA	34.54	NA	398.74	0	398.74
	04/22/04	433.28	NA	30.24	NA	403.04	0	403.04
	07/13/04	433.28	NA	25.57	NA	407.71	0	407.71
P-77	01/28/04	434.57	NA	37.61	NA	396.96	0	396.96
	04/22/04	434.57	NA	35.83	NA	398.74	0	398.74
	07/13/04	434.57	NA	33.00	NA	401.57	0	401.57
P-78	01/28/04	433.29	NA	36.08	NA	397.21	0	397.21
	04/22/04	433.29	NA	34.24	NA	399.05	0	399.05
	07/13/04	433.29	NA	31.75	NA	401.54	0	401.54
P-79	01/28/04	432.65	NA	35.44	NA	397.21	0	397.21
	04/22/04	432.65	NA	33.69	NA	398.96	0	398.96
	07/13/04	432.65	--	--	--	--	--	--
P-80	01/28/04	433.04	NA	35.32	NA	397.72	0	397.72
	04/22/04	433.04	NA	33.59	NA	399.45	0	399.45
	07/13/04	433.04	NA	30.82	NA	402.22	0	402.22
P-81	01/28/04	433.20	NA	34.22	NA	398.98	0	398.98
	04/22/04	433.20	NA	32.42	NA	400.78	0	400.78
	07/13/04	433.20	NA	29.58	NA	403.62	0	403.62
P-104	01/28/04	432.67	NA	14.51	NA	418.16	0	418.16
	04/22/04	432.67	NA	13.68	NA	418.99	0	418.99
	07/13/04	432.67	NA	11.99	NA	420.68	0	420.68
P-105	01/28/04	432.54	NA	31.24	NA	401.30	0	401.30
	04/22/04	432.54	NA	30.23	NA	402.31	0	402.31
	07/13/04	432.54	NA	27.65	NA	404.89	0	404.89

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
P-106	01/28/04	432.64	NA	35.31	NA	397.33	0	397.33
	04/22/04	432.64	NA	33.44	NA	399.20	0	399.20
	07/13/04	432.64	NA	30.55	NA	402.09	0	402.09
P-107	01/28/04	431.83	NA	29.12	NA	402.71	0	402.71
	04/22/04	431.83	NA	27.82	NA	404.01	0	404.01
	07/13/04	431.83	NA	24.47	NA	407.36	0	407.36
P-129	01/28/04	433.23	NA	34.32	NA	398.91	0	398.91
	07/13/04	433.23	--	--	--	--	--	--
P-130	01/28/04	431.67	--	--	--	--	--	--
	07/13/04	431.67	NA	11.30	NA	420.37	0	420.37
P-131	01/28/04	432.54	NA	11.38	NA	421.16	0	421.16
	04/22/04	432.54	NA	12.69	NA	419.85	0	419.85
	07/13/04	432.54	NA	10.01	NA	422.53	0	422.53
P-132	01/28/04	432.08	NA	28.53	NA	403.55	0	403.55
	04/22/04	432.08	NA	27.57	NA	404.51	0	404.51
	07/13/04	432.08	NA	23.95	NA	408.13	0	408.13
P-133	01/28/04	430.94	NA	13.57	NA	417.37	0	417.37
	04/22/04	430.94	NA	18.18	NA	412.76	0	412.76
	07/13/04	430.94	NA	13.95	NA	416.99	0	416.99
P-134	01/28/04	432.46	NA	11.86	NA	420.60	0	420.60
	04/22/04	432.46	NA	12.63	NA	419.83	0	419.83
	07/13/04	432.46	NA	10.62	NA	421.84	0	421.84
SP-1	01/28/04	429.00	--	--	--	--	--	--
	04/22/04	429.00	NA	10.53	NA	418.47	0	418.47
	07/13/04	429.00	NA	7.41	NA	421.59	0	421.59
SP-2B	01/28/04	429.10	NA	26.66	NA	402.44	0	402.44
	04/22/04	429.10	NA	25.76	NA	403.34	0	403.34
	07/13/04	429.10	NA	21.58	NA	407.52	0	407.52

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
SP-3	01/28/04	--	NA	9.91	NA	--	0	--
	04/22/04	--	NA	12.87	NA	--	0	--
	07/13/04	--	NA	10.23	NA	--	0	--
SP-5	01/28/04	431.22	NA	10.01	NA	421.21	0	421.21
	04/22/04	431.22	NA	12.66	NA	418.56	0	418.56
	07/13/04	431.22	NA	8.59	NA	422.63	0	422.63
SP-6	01/28/04	433.03	NA	10.56	NA	422.47	0	422.47
	04/22/04	433.03	NA	12.62	NA	420.41	0	420.41
	07/13/04	433.03	NA	10.54	NA	422.49	0	422.49
SP-7	01/28/04	428.99	NA	8.47	NA	420.52	0	420.52
	04/22/04	428.99	NA	10.16	NA	418.83	0	418.83
	07/13/04	428.99	NA	7.00	NA	421.99	0	421.99
SP-8	01/28/04	429.03	NA	8.28	NA	420.75	0	420.75
	04/22/04	429.03	NA	9.52	NA	419.51	0	419.51
	07/13/04	429.03	NA	6.80	NA	422.23	0	422.23
SP-9	01/28/04	432.62	NA	10.62	NA	422.00	0	422.00
	04/22/04	432.62	NA	11.88	NA	420.74	0	420.74
	07/13/04	432.62	NA	9.95	NA	422.67	0	422.67
SP-10	01/28/04	432.59	NA	10.75	NA	421.84	0	421.84
	04/22/04	432.59	NA	11.56	NA	421.03	0	421.03
	07/13/04	432.59	NA	9.40	NA	423.19	0	423.19
SP-11	01/28/04	432.41	NA	10.27	NA	422.14	0	422.14
	04/22/04	432.41	NA	12.58	NA	419.83	0	419.83
	07/13/04	432.41	NA	10.27	NA	422.14	0	422.14
SP-12	01/28/04	432.35	NA	29.61	NA	402.74	0	402.74
	04/22/04	432.35	NA	28.68	NA	403.67	0	403.67
	07/13/04	432.35	NA	24.76	NA	407.59	0	407.59

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-13	01/28/04	432.48	NA	33.82	NA	398.66	0	398.66
	04/22/04	432.48	NA	33.16	NA	399.32	0	399.32
	07/13/04	432.48	NA	30.13	NA	402.35	0	402.35
SP-14	01/28/04	428.92	NA	28.51	NA	400.41	0	400.41
	04/22/04	428.92	NA	27.02	NA	401.90	0	401.90
	07/13/04	428.92	--	--	--	--	--	--
SP-15	01/28/04	428.69	NA	9.18	NA	419.51	0	419.51
	04/22/04	428.69	NA	10.87	NA	417.82	0	417.82
	07/13/04	428.69	NA	7.01	NA	421.68	0	421.68
SP-16	01/28/04	429.38	NA	8.91	NA	420.47	0	420.47
	04/22/04	429.38	NA	11.24	NA	418.14	0	418.14
	07/13/04	429.38	NA	7.50	NA	421.88	0	421.88
SP-17	01/28/04	428.19	NA	9.06	NA	419.13	0	419.13
	04/22/04	428.19	NA	9.72	NA	418.47	0	418.47
	07/13/04	428.19	NA	6.43	NA	421.76	0	421.76
SP-18	01/28/04	431.07	NA	31.43	NA	399.64	0	399.64
	04/22/04	431.07	NA	30.27	NA	400.80	0	400.80
	07/13/04	431.07	NA	26.53	NA	404.54	0	404.54
SP-19	01/28/04	430.89	NA	13.95	NA	416.94	0	416.94
	04/22/04	430.89	NA	15.80	NA	415.09	0	415.09
	07/13/04	430.89	NA	10.70	NA	420.19	0	420.19
SP-20	01/28/04	431.10	NA	12.42	NA	418.68	0	418.68
	04/22/04	431.10	NA	15.32	NA	415.78	0	415.78
	07/13/04	431.10	NA	9.79	NA	421.31	0	421.31
SP-21	01/28/04	431.65	NA	14.38	NA	417.27	0	417.27
	04/22/04	431.65	NA	17.22	NA	414.43	0	414.43
	07/13/04	431.65	NA	10.86	NA	420.79	0	420.79

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-22	01/28/04	430.36	NA	9.98	NA	420.38	0	420.38
	04/22/04	430.36	NA	12.38	NA	417.98	0	417.98
	07/13/04	430.36	NA	8.31	NA	422.05	0	422.05
SP-23	01/28/04	430.67	NA	10.19	NA	420.48	0	420.48
	04/22/04	430.67	NA	13.24	NA	417.43	0	417.43
	07/13/04	430.67	NA	8.68	NA	421.99	0	421.99
SP-24	01/28/04	428.86	NA	8.29	NA	420.57	0	420.57
	04/22/04	428.86	NA	9.98	NA	418.88	0	418.88
	07/13/04	428.86	NA	23.03	NA	405.83	0	405.83
SP-25	01/28/04	428.61	NA	8.13	NA	420.48	0	420.48
	04/22/04	428.61	NA	10.14	NA	418.47	0	418.47
	07/13/04	428.61	NA	6.62	NA	421.99	0	421.99
SP-26	01/28/04	429.84	NA	9.41	NA	420.43	0	420.43
	04/22/04	429.84	NA	11.13	NA	418.71	0	418.71
	07/13/04	429.84	NA	7.89	NA	421.95	0	421.95
SP-27	01/28/04	431.90	NA	11.28	NA	420.62	0	420.62
	04/22/04	431.90	NA	13.50	NA	418.40	0	418.40
	07/13/04	431.90	NA	10.38	NA	421.52	0	421.52
SP-28	01/28/04	432.19	NA	10.63	NA	421.56	0	421.56
	04/22/04	432.19	NA	13.65	NA	418.54	0	418.54
	** 7/13/04	432.19	NA	11.31	NA	420.88	0	420.88
SP-29	01/28/04	431.78	NA	11.16	NA	420.62	0	420.62
	04/22/04	431.78	NA	12.44	NA	419.34	0	419.34
	07/13/04	431.78	NA	9.58	NA	422.20	0	422.20
SP-30	01/28/04	431.83	12.05	12.06	419.78	419.77	0.01	419.78
	04/22/04	431.83	NA	14.34	NA	417.49	0	417.49
	07/13/04	431.83	10.28	10.32	421.55	421.51	0.04	421.54

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-31	01/28/04	429.77	NA	10.19	NA	419.58	0	419.58
	04/22/04	429.77	NA	11.22	NA	418.55	0	418.55
	07/13/04	429.77	NA	7.85	NA	421.92	0	421.92
SP-32	01/28/04	430.42	NA	10.84	NA	419.58	0	419.58
	04/22/04	430.42	NA	12.43	NA	417.99	0	417.99
	07/13/04	430.42	NA	8.67	NA	421.75	0	421.75
SP-33	01/28/04	430.95	NA	10.52	NA	420.43	0	420.43
	04/22/04	430.95	NA	12.85	NA	418.10	0	418.10
	07/13/04	430.95	NA	9.16	NA	421.79	0	421.79
SP-34	01/28/04	430.12	NA	10.95	NA	419.17	0	419.17
	04/22/04	430.12	NA	11.46	NA	418.66	0	418.66
	07/13/04	430.12	NA	8.30	NA	421.82	0	421.82
SP-35	01/28/04	431.13	NA	10.70	NA	420.43	0	420.43
	04/22/04	431.13	NA	12.42	NA	418.71	0	418.71
	07/13/04	431.13	NA	9.16	NA	421.97	0	421.97
SP-36	01/28/04	429.41	NA	32.50	NA	396.91	0	396.91
	04/22/04	429.41	NA	31.02	NA	398.39	0	398.39
	07/13/04	429.41	NA	28.19	NA	401.22	0	401.22
SP-37	01/28/04	429.58	NA	24.12	NA	405.46	0	405.46
	04/22/04	429.58	NA	25.61	NA	403.97	0	403.97
	07/13/04	429.58	NA	19.26	NA	410.32	0	410.32
SP-38	01/28/04	430.84	NA	19.38	NA	411.46	0	411.46
	04/22/04	430.84	NA	19.96	NA	410.88	0	410.88
	07/13/04	430.84	NA	15.47	NA	415.37	0	415.37
SP-39	01/28/04	431.92	NA	11.88	NA	420.04	0	420.04
	04/22/04	431.92	NA	16.19	NA	415.73	0	415.73
	07/13/04	431.92	NA	9.64	NA	422.28	0	422.28

TABLE 2
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
SP-40	01/28/04	431.78	NA	28.60	NA	403.18	0	403.18
	04/22/04	431.78	NA	28.80	NA	402.98	0	402.98
	07/13/04	431.78	NA	23.53	NA	408.25	0	408.25
SP-41	01/28/04	431.45	NA	35.33	NA	396.12	0	396.12
	04/22/04	431.45	NA	33.97	NA	397.48	0	397.48
	07/13/04	431.45	NA	30.60	NA	400.85	0	400.85
SP-42	01/28/04	431.71	NA	35.42	NA	396.29	0	396.29
	04/22/04	431.71	NA	33.87	NA	397.84	0	397.84
	07/13/04	431.71	NA	30.47	NA	401.24	0	401.24
SP-43	01/28/04	431.74	NA	29.61	NA	402.13	0	402.13
	04/22/04	431.74	NA	27.72	NA	404.02	0	404.02
	07/13/04	431.74	NA	21.00	NA	410.74	0	410.74
SP-44	01/28/04	431.83	NA	14.11	NA	417.72	0	417.72
	04/22/04	431.83	NA	17.20	NA	414.63	0	414.63
	** 7/13/04	431.83	10.38	10.61	421.45	421.22	0.23 ²	421.39

NOTES:

NA = Not Applicable

-- = No data

** = Depth to water anomaly

SG = Specific gravity of hydrocarbon assumed to be 0.74 by others.

¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

² Followup checking found that this reading was in error. There was no FPH detected in this well.

Well SP-4 no longer exists.

TOC elevations (except for SP-42, SP-43, & SP-44) have been rotated and adjusted to match USGS datum (datum used to survey Village wells).

This rotation and adjustment of original survey data (obtained in 7/01 by CMT, Inc.) was completed in 1/04 by CMT.

TOC elevations for SP-42, SP-43, & SP-44 were surveyed to USGS datum in 12/03 by CMT.

TABLE 3
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-1	01/27/04	430.22	NA	31.13	NA	399.09	0	399.09
	04/20/04	430.22	NA	29.29	NA	400.93	0	400.93
	07/13/04	430.22	NA	27.00	NA	403.22	0	403.22
TH2-88 @P7 Well	01/27/04	--	NA	31.04	NA	--	--	--
	04/20/04	--	NA	29.84	NA	--	--	--
	07/14/04	--	NA	28.28	NA	--	--	--
RB-08P	01/28/04	433.43	23.89	23.90	409.54	409.53	0.01	409.54
	04/20/04	433.43	23.64	23.65	409.79	409.78	0.01	409.79
	07/20/04	433.43	--	--	--	--	--	--
RB-08 Recovery Well	01/28/04	--	32.51	33.32	--	--	0.81	--
	04/20/04	--	30.84	31.16	--	--	0.32	--
	07/14/04	--	28.89	29.38	--	--	0.49	--
RB-10*	01/28/04	430.03	31.02	31.25	399.01	398.78	0.23	398.96
	04/21/04	430.03	29.97	30.24	400.06	399.79	0.27	400.00
	07/14/04	430.03	--	--	--	--	--	--
RB-13	01/27/04	--	NA	30.52	NA	--	0	--
	04/21/04	--	NA	29.20	NA	--	0	--
	07/14/04	--	NA	27.13	NA	--	0	--
RB-22	01/28/04	431.01	NA	31.02	NA	399.99	0	399.99
	04/21/04	431.01	NA	29.86	NA	401.15	0	401.15
	07/14/04	431.01	NA	27.57	NA	403.44	0	403.44
RB-25	01/27/04	432.11	NA	31.84	NA	400.27	0	400.27
	04/20/04	432.11	NA	31.95	NA	400.16	0	400.16
	07/14/03	432.11	NA	30.15	NA	401.96	0	401.96
RB-26	01/27/04	430.03	NA	31.41	NA	398.62	0	398.62
	04/20/04	430.03	NA	29.73	NA	400.30	0	400.30
	07/14/04	430.03	NA	28.20	NA	401.83	0	401.83
RB-29	01/28/04	431.89	13.70	13.88	418.19	418.01	0.18	418.15
	04/20/04	431.89	13.61	13.74	418.28	418.15	0.13	418.25
	07/14/04	431.89	12.43	12.60	419.46	419.29	0.17	419.42

TABLE 3
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RB-30'	01/28/04	431.89	NA	32.30	NA	399.59	0	399.59
	04/20/04	431.89	NA	31.26	NA	400.63	0	400.63
	07/14/04	431.89	NA	29.90	NA	401.99	0	401.99
RB-35	01/28/04	429.85	29.10	29.54	400.75	400.31	0.44	400.65
	04/21/04	429.85	27.45	28.80	402.4	401.05	1.35	402.10
	07/14/04	429.85	--	--	--	--	--	--
RB-36	01/28/04	429.16	NA	23.32	NA	405.84	0	405.84
	04/20/04	429.16	NA	21.83	NA	407.33	0	407.33
	07/13/04	429.16	NA	20.75	NA	408.41	0	408.41
RB-37*	01/28/04	428.38	29.32	32.35	399.06	396.03	3.03	398.39
	04/20/04	428.38	27.57	32.11	400.81	396.27	4.54	399.81
	07/13/04	428.38	--	--	--	--	--	--
RB-38	01/27/04	433.69	NA	35.02	NA	398.67	0	398.67
	04/20/04	433.69	NA	33.94	NA	399.75	0	399.75
	** 7/14/2004	433.69	NA	30.70	NA	402.99	0	402.99
RB-39	01/27/04	431.48	NA	26.90	NA	404.58	0	404.58
	04/20/04	431.48	NA	25.83	NA	405.65	0	405.65
	07/14/04	431.48	NA	23.40	NA	408.08	0	408.08
RB-40	01/27/04	433.50	NA	34.12	NA	399.38	0	399.38
	04/20/04	433.50	NA	33.51	NA	399.99	0	399.99
	07/13/04	433.50	NA	32.60	NA	400.90	0	400.90
RB-41	01/27/04	433.24	NA	33.72	NA	399.52	0	399.52
	04/20/04	433.24	NA	33.34	NA	399.90	0	399.90
	07/13/04	433.24	NA	32.75	NA	400.49	0	400.49
RB-42	01/27/04	428.45	NA	28.33	NA	400.12	0	400.12
	04/20/04	428.45	NA	28.27	NA	400.18	0	400.18
	07/13/04	428.45	NA	28.00	NA	400.45	0	400.45
RB-43	01/27/04	427.95	NA	25.54	NA	402.41	0	402.41
	04/20/04	427.95	NA	25.85	NA	402.10	0	402.10
	07/13/04	427.95	NA	25.00	NA	402.95	0	402.95

TABLE 3
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-44	01/27/04	432.95	NA	31.93	NA	401.02	0	401.02
	04/20/04	432.95	NA	30.95	NA	402.00	0	402.00
	07/13/04	432.95	NA	29.60	NA	403.35	0	403.35
RB-45	01/27/04	431.92	NA	30.41	NA	401.51	0	401.51
	04/20/04	431.92	NA	30.04	NA	401.88	0	401.88
	07/13/04	431.92	NA	28.55	NA	403.37	0	403.37
RB-46	01/28/04	430.62	NA	30.43	NA	400.19	0	400.19
	04/21/04	430.62	NA	29.40	NA	401.22	0	401.22
	07/14/04	430.62	NA	27.29	NA	403.33	0	403.33
RB-47	01/28/04	431.12	NA	31.18	NA	399.94	0	399.94
	04/21/04	431.12	NA	30.13	NA	400.99	0	400.99
	07/14/04	431.12	NA	27.91	NA	403.21	0	403.21
RB-48*	01/28/04	431.26	29.49	32.56	401.77	398.70	3.07	401.09
	04/21/04	431.26	28.54	30.65	402.72	400.61	2.11	402.26
	07/14/04	431.26	--	--	--	--	--	--
RB-49	01/28/04	429.31	NA	2.80	NA	426.51	0	426.51
	04/21/04	429.31	NA	3.21	NA	426.10	0	426.10
	07/14/04	429.31	NA	2.70	NA	426.61	0	426.61
RB-50	01/28/04	431.50	NA	4.80	NA	426.70	0	426.70
	04/21/04	431.50	NA	6.08	NA	425.42	0	425.42
	07/14/04	431.50	NA	5.22	NA	426.28	0	426.28
RB-51	01/28/04	431.58	NA	31.01	NA	400.57	0	400.57
	04/21/04	431.58	NA	29.24	NA	402.34	0	402.34
	07/14/04	431.58	NA	26.26	NA	405.32	0	405.32
RB-52*	01/28/04	432.02	NA	32.96	NA	399.06	0	399.06
	04/21/04	432.02	NA	31.26	NA	400.76	0	400.76
	07/14/04	432.02	--	--	--	--	--	--
RB-53*	01/28/04	433.84	34.55	34.56	399.29	399.28	0.01	399.29
	04/20/04	433.84	NA	32.37	NA	401.47	0	401.47
	07/08/04	433.84	--	--	--	--	--	--

TABLE 3
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
RB-54	01/27/04	431.88	NA	20.11	NA	411.77	0	411.77
	04/20/04	431.88	NA	21.58	NA	410.30	0	410.30
	07/14/04	431.88	NA	17.15	NA	414.73	0	414.73
RB-55*	01/28/04	434.21	33.39	33.40	400.82	400.81	0.01	400.82
	04/21/04	434.21	29.97	37.42	404.24	396.79	7.45	402.60
	07/14/04	434.21	--	--	--	--	--	--
RB-56*	01/28/04	431.91	32.16	35.64	399.75	396.27	3.48	398.98
	04/21/04	431.91	31.35	33.40	400.56	398.51	2.05	400.11
	07/14/04	431.91	--	--	--	--	--	--
GB-1	01/27/04	431.55	NA	29.07	NA	402.48	0	402.48
	04/20/04	431.55	NA	29.41	NA	402.14	0	402.14
	07/13/04	431.55	NA	28.25	NA	403.30	0	403.30
GB-6	01/27/04	430.53	NA	29.44	NA	401.09	0	401.09
	04/20/04	430.53	NA	29.62	NA	400.91	0	400.91
	07/13/04	430.53	NA	29.10	NA	401.43	0	401.43
LP-4	01/27/04	432.53	NA	31.64	NA	400.89	0	400.89
	04/20/04	432.53	NA	31.36	NA	401.17	0	401.17
	07/13/04	432.53	NA	30.10	NA	402.43	0	402.43
T-1*	01/28/04	--	29.47	32.50	--	--	3.03	--
	04/21/04	--	28.55	30.61	--	--	2.06	--
	07/13/04	--	--	--	--	--	--	--
MP-1S	04/21/04	--	NA	24.46	NA	--	0	--
	07/14/04	--	27.60	27.90	--	--	0.30	--
MP-1D	04/21/04	--	30.16	30.20	--	--	0.04	--
	07/14/04	--	NA	23.00	--	--	0	--
MP-2S	04/21/04	--	NA	29.67	NA	--	0	--
	07/14/04	--	NA	26.81	NA	--	0	--
MP-2D	04/21/04	--	NA	27.00	NA	--	0	--
	07/08/04	--	26.01	27.00	--	--	0.99	--
MP-3S	04/21/04	--	NA	29.26	NA	--	0	--

TABLE 3
Quarterly 2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation ¹ (ft)
MP-3D	07/14/04	--	NA	26.78	NA	--	0	--
	04/21/04	--	NA	18.66	NA	--	0	--
	07/14/04	--	NA	16.85	NA	--	0	--
MP-4S	04/21/04	--	--	--	--	--	--	--
	07/14/04	--	26.65	29.36	--	--	2.71	--
MP-4D	04/21/04	--	--	--	--	--	--	--
	07/14/04	--	NA	25.60	NA	--	0	--
SVE-1S	04/21/04	--	--	--	--	--	--	--
	07/14/04	--	--	--	--	--	--	--
SVE-1D*	04/20/04	--	29.65	29.71	--	--	0.06	--
	07/14/04	--	--	--	--	--	--	--
Product	04/21/04		13.79	13.80	--	--	0.01	
	07/14/04	--	NA	13.93	--	--	0	--

NOTES:

NA = Not Applicable

-- = No data

¹ Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

* Well contains product recovery pump.

** = Depth to water anomaly

SG = Specific gravity of hydrocarbon determined to be an average of 0.78 on the Premcor facility for data recorded during and after 9/03.

MP- and SVE-series installed by Clayton in 6/03. MP-series installed as vacuum monitoring probes. SVE-series installed as soil vapor extraction wells.

MP- and SVE-series not appropriate for determining groundwater flow.

Remaining wells installed by others.

MP- and SVE-series, and RB-13, T-1, TH2-88@P7 well and RB-08 (recovery well) well TOC elevations to be determined by Illinois-licensed surveyor.

TOC elevations rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 6/02 by CMT, Inc.) was completed in 1/04 by CMT.

TABLE 4
Compound/Analyte List for Water Samples
VOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT *	PRACTICAL QUANTITATION LIMIT *	ACCEPTABLE DETECTION LIMIT **
	Source	Method No.	Source	Method No.				
VOCs	SW-846	5030	SW-846	8260	Benzene	0.5	2	5
	SW-846	5030	SW-846	8260	Carbon disulfide	1	5	700
	SW-846	5030	SW-846	8260	Chlorobenzene	1	5	100
	SW-846	5030	SW-846	8260	Chloroform	1	5	0.2
	SW-846	5030	SW-846	8260	1,2-Dibromoethane or Ethylene dibromide (EDB)	1	5	0.05
	SW-846	5030	SW-846	8260	1,2-Dichlorobenzene	1	5	600
	SW-846	5030	SW-846	8260	1,3-Dichlorobenzene	1	5	NA
	SW-846	5030	SW-846	8260	1,4-Dichlorobenzene	1	5	75
	SW-846	5030	SW-846	8260	1,1-Dichloroethane	1	5	700
	SW-846	5030	SW-846	8260	1,2-Dichloroethane	1	5	5
	SW-846	5030	SW-846	8260	Ethylbenzene	1	5	700
	SW-846	5030	SW-846	8260	Methyl ethyl ketone (MEK) or 2-Butanone	5	50	NA
	SW-846	5030	SW-846	8260	Methyl tertiary butyl ether (MTBE)	0.5	2	70
	SW-846	5030	SW-846	8260	Styrene	1	5	100
	SW-846	5030	SW-846	8260	1,1,1-Trichloroethane	1	5	200
	SW-846	5030	SW-846	8260	Tetrachloroethene	1	5	5
	SW-846	5030	SW-846	8260	Toluene	1	5	1,000
	SW-846	5030	SW-846	8260	Trichloroethene	1	5	5
	SW-846	5030	SW-846	8260	o, m, p-Xylenes (total)	1	5	10,000
					SW-846	3510	SW-846	8015
					1,4-Dioxane	250	500	NA

NOTES:

µg/L = Micrograms per liter

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

** = Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

NA = Not available

TABLE 4
Compound/Analyte List for Water Samples
SVOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT *	PRACTICAL QUANTITATION LIMIT *	ACCEPTABLE DETECTION LIMIT **
	Source	Method No.	Source	Method No.				
SVOCs	SW-846	3510	SW-846	8310	Acenaphthene	0.002	0.005	0.42
	SW-846	3510	SW-846	8310	Anthracene	0.0001	0.006	2.1
	SW-846	3510	SW-846	8310	Benzo(a)anthracene	0.00005	0.0001	0.00013
	SW-846	3510	SW-846	8310	Benzo(b)fluoranthene	0.0001	0.00018	0.00018
	SW-846	3510	SW-846	8310	Benzo(k)fluoranthene	0.0001	0.00017	0.00017
	SW-846	3510	SW-846	8310	Benzo(a)pyrene	0.0001	0.0002	0.0002
	SW-846	3510	SW-846	8270	Bis(2-ethylhexyl)phthalate	0.004	0.006	0.006
	SW-846	3510	SW-846	8310	Chrysene	0.0003	0.0008	0.0015
	SW-846	3510	SW-846	8270	o-Cresol	0.001	0.01	0.35
	SW-846	3510	SW-846	8270	m-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	p-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	Di-n-butyl phthalate	0.003	0.01	0.7
	SW-846	3510	SW-846	8310	Dibenzo(a,h)anthracene	0.0002	0.0003	0.0003
	SW-846	3510	SW-846	8270	Diethyl phthalate	0.002	0.01	5.6
	SW-846	3510	SW-846	8270	2,4-Dimethylphenol	0.001	0.01	0.14
	SW-846	3510	SW-846	8270	Dimethyl phthalate	0.001	0.01	NA
	SW-846	3510	SW-846	8270	2,4-Dinitrophenol	0.001	0.01	0.014
	SW-846	3510	SW-846	8310	Fluoranthene	0.0005	0.002	0.28
	SW-846	3510	SW-846	8310	Fluorene	0.0004	0.001	0.28
	SW-846	3510	SW-846	8310	Indeno(1,2,3-cd)pyrene	0.0001	0.0004	0.00043
	SW-846	3510	SW-846	8310	Naphthalene	0.002	0.005	0.14
	SW-846	3510	SW-846	8270	4-Nitrophenol	0.001	0.01	NA
	SW-846	3510	SW-846	8310	Phenanthrene	0.0005	0.005	NA
	SW-846	3510	SW-846	8270	Phenol	0.001	0.005	0.1
	SW-846	3510	SW-846	8310	Pyrene	0.0001	0.002	0.21
	SW-846	3510	SW-846	8270	Pyridine	0.005	0.02	NA
	SW-846	3510	SW-846	8270	Quinoline	0.001	0.005	NA

NOTES:

mg/L = Milligrams per liter

NA = Not available

(L) = This is the lowest limit able to be achieved by current methodologies.

µg/L = Micrograms per liter

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

** = Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

TABLE 4
Compound/Analyte List for Water Samples
Inorganics
Village of Hartford

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT * (mg/L)	PRACTICAL QUANTITATION LIMIT * (mg/L)	ACCEPTABLE DETECTION LIMIT ** (mg/L)
	Source	Method No.	Source	Method No.				
Metals	SW-846	3020A	SW-846	7041	Antimony	0.0017	0.005	0.006
	SW-846	3020A	SW-846	7060A	Arsenic	0.0007	0.003	0.05
	SW-846	3005A	SW-846	6010	Barium	0.0024	0.005	2
	SW-846	3005A	SW-846	6010	Beryllium	0.003	0.001	0.004
	SW-846	3005A	SW-846	6010	Cadmium	0.0003	0.002	0.005
	SW-846	3005A	SW-846	6010	Chromium-Total	0.004	0.01	0.1
	SW-846	3005A	SW-846	6010	Cobalt	0.0022	0.01	1
	SW-846	3020A	SW-846	7421	Lead	0.0004	0.002	0.0075
	--	--	SW-846	7470	Mercury	0.00005	0.0002	0.002
	SW-846	3005A	SW-846	6010	Nickel	0.0033	0.01	0.1
	SW-846	3020A	SW-846	7740	Selenium	0.0035	0.006	0.05
	SW-846	3005A	SW-846	6010	Silver	0.0032	0.01	0.05
	SW-846	3005A	SW-846	6010	Vanadium	0.0032	0.01	0.049
	SW-846	3005A	SW-846	6010	Zinc	0.0021	0.01	5
General	--	--	SW-846	9012A	Cyanide Total	0.0026	0.007	0.2

NOTES:

mg/L = Milligrams per liter.

* = Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).

** = Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

NA = Not available

-- = Not applicable

TABLE 5
Sample Container, Preservation, and Holding Time Requirements For
Water Samples

The Hartford Working Group / Hartford, Illinois
 1190505040 -- Madison County -- ILR 000128249

PARAMETER	ANALYSIS	HOLDING TIME	CONTAINER	PRESERVATION
Organics	VOCs	14 days	3-40 ml VOC vials	HCl to pH < 2, no headspace Maintained at 4 + 2 degrees Celsius
	1,4-Dioxane	7 days	3-40 ml VOC vials	Unpreserved, no headspace Maintained at 4 + 2 degrees Celsius
	SVOCs	7 days	2 L amber glass jars	Unpreserved Maintained at 4 + 2 degrees Celsius
Metals	Inorganic Metals	180 days	250 ml plastic jar	HNO ₃ to pH<2
	Mercury	28 days		Maintained at 4 + 2 degrees Celsius
General	Total Cyanide	14 days	500 ml plastic jar	NaOH to pH>12 Maintained at 4 + 2 degrees Celsius

NOTES:

Sentinel Wells: HMW-25, HMW-26, HMW-27, HMW-28, and HMW-29.

VOCs include Ethylene Dibromide (1,2-Dibromoethane).

All compounds/analytes to be unfiltered.

Samples to be analyzed for the "Skinner List" as identified in Item 47 of the Administrative Order on Consent (AOC).

Compounds/analytes based on USEPA Region 5 Waste Management Branch "Skinner List" Constituents of Concern for Wastes from Petroleum Processes.

TABLE 6
Groundwater Analytical Results-Skinner List
VOCs
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number and Collection Date											
		HMW-25				HMW-26				HMW-27			
	Class I	12/16/03	4/22/04	7/7/04	Dup-001 7/7/04	12/16/03	4/22/04	7/7/04	12/16/03	4/22/04	Dup-01 4/22/04	7/7/04	
VOCs (mg/L)	(mg/L)												
1,4-Dioxane	NL	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VOCs (µg/L)	(µg/L)												
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	0.05	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	NL	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	NL	<50.0	<50.0	<25.0	<25.0	<50.0	<50.0	<25.0	<50.0	<50.0	<50.0	<50.0	<25.0
Benzene	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	0.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylenes (total)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

µg/L = Micrograms per liter

[] = Detection Limit above TACO

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

TABLE 6
Groundwater Analytical Results-Skinner List
VOCs
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number and Collection Date					
		HMW-28			HMW-29		
		Class I	12/16/03	4/22/04	7/7/04	12/17/03	4/22/04
VOCs (mg/L)							
1,4-Dioxane	NL		<0.50	<0.50	<0.50	<0.50	<0.50
VOCs (µg/L)							
1,1,1-Trichloroethane	200		<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	700		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	0.05		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0		<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	NL		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75		<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	NL		<50.0	<50.0	<25.0	<50.0	<50.0
Benzene	5.0		<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	700		<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100		<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	0.2		<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700		<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	70		<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	100		<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	5.0		<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1000		<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	5.0		<5.0	<5.0	<5.0	<5.0	<5.0
Xylenes (total)	10000		<5.0	<5.0	<5.0	<5.0	<5.0

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

µg/L = Micrograms per liter

[redacted] = Detection Limit above TACO

J = Estimated value. Compound detected below the PQL.

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

TABLE 7
Groundwater Analytical Results-Skinner List
SVOCs
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number and Collection Date										
		HMW-25				HMW-26			HMW-27			
		Class I	12/16/03	4/22/04	7/7/04	Dup-001 7/7/04	12/16/03	4/22/04	7/7/04	12/16/03	4/22/04	Dup-01 4/22/04
SVOCs (mg/L)	(mg/L)											
2,4-Dimethylphenol	0.14		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	0.014		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
4-Nitrophenol	NL		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bis(2-ethylhexyl)phthalate	0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	0.7		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	5.6		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	NL		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Cresol	NL		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	0.35		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenol	0.1		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	NL		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	NL		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	0.42		<0.00500	<0.010	<0.00300	<0.00300	<0.00500	<0.010	<0.00300	<0.00500	<0.010	<0.010
Anthracene	2.1		<0.00500	<0.010	<0.00030	<0.00030	<0.00500	<0.010	<0.00030	<0.00500	<0.010	<0.010
Benzo(a)anthracene	0.00013		<0.00010	<0.010	<0.00009	<0.00009	<0.00010	<0.010	<0.00009	<0.00010	<0.010	<0.010
Benzo(a)pyrene	0.0002		<0.00020	<0.010	<0.00012	<0.00012	<0.00020	<0.010	<0.00012	<0.00020	<0.010	<0.010
Benzo(b)fluoranthene	0.00018		<0.00018	<0.010	<0.00015	<0.00015	<0.00018	<0.010	<0.00015	<0.00018	<0.010	<0.010
Benzo(k)fluoranthene	0.00017		<0.00017	<0.010	<0.00015	<0.00015	<0.00017	<0.010	<0.00015	<0.00017	<0.010	<0.010
Chrysene	0.0015		<0.00080	<0.010	<0.00045	<0.00045	<0.00080	<0.010	<0.00045	<0.00080	<0.010	<0.010
Dibenzo(a,h)anthracene	0.0003		<0.00030	<0.010	<0.00018	<0.00018	<0.00030	<0.010	<0.00018	<0.00030	<0.010	<0.010
Fluoranthene	0.28		<0.00200	<0.010	<0.00090	<0.00090	<0.00200	<0.010	<0.00090	<0.00200	<0.010	<0.010
Fluorene	0.28		<0.00100	<0.010	<0.00030	<0.00030	<0.00100	<0.010	<0.00030	<0.00100	<0.010	<0.010
Indeno(1,2,3-cd)pyrene	0.00043		<0.00040	<0.010	<0.00030	<0.00030	<0.00040	<0.010	<0.00030	<0.00040	<0.010	<0.010
Naphthalene	0.14		<0.00500	<0.010	<0.00300	<0.00300	<0.00500	<0.010	<0.00300	<0.00500	<0.010	<0.010
Phenanthrene	NL		<0.00500	<0.010	<0.00060	<0.00060	<0.00500	<0.010	<0.00060	<0.00500	<0.010	<0.010
Pyrene	0.21		<0.00200	<0.010	<0.00030	<0.00030	<0.00200	<0.010	<0.00030	<0.00200	<0.010	<0.010

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

µg/L = Micrograms per liter

[] = Detection Limit above TACO

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

Bold and highlighted values exceed TACO-GROs.

NL = No groundwater remediation objective listed in TACO

TABLE 7
Groundwater Analytical Results-Skinner List
SVOCs
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- ILR 000128249

CHEMICAL NAME	Sentinel Well Number and Collection Date					
	HMW-28			HMW-29		
	12/16/03	4/22/04	7/7/04	12/17/03	4/22/04	7/7/04
SVOCs (mg/L)						
2,4-Dimethylphenol	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
2,4-Dinitrophenol	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
4-Nitrophenol	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
Bis(2-ethylhexyl)phthalate	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
Diethyl phthalate	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
Dimethyl phthalate	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
m,p-Cresol	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
o-Cresol	<0.010	<0.010	<0.010	<0.011	<0.010	<0.010
Phenol	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	<0.020	<0.020	<0.020	<0.021	<0.020	<0.020
Quinoline	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	<0.00500	<0.010	<0.00300	<0.00500	<0.010	<0.00300
Anthracene	<0.00500	<0.010	<0.00030	<0.00500	<0.010	<0.00030
Benzo(a)anthracene	<0.00010	<0.010	<0.00009	<0.00010	<0.010	<0.00009
Benzo(a)pyrene	<0.00020	<0.010	<0.00012	<0.00020	<0.010	<0.00012
Benzo(b)fluoranthene	<0.00018	<0.010	<0.00015	<0.00018	<0.010	<0.00015
Benzo(k)fluoranthene	<0.00017	<0.010	<0.00015	<0.00017	<0.010	<0.00015
Chrysene	<0.00080	<0.010	<0.00045	<0.00080	<0.010	<0.00045
Dibenzo(a,h)anthracene	<0.00030	<0.010	<0.00018	<0.00030	<0.010	<0.00018
Fluoranthene	<0.00200	<0.010	<0.00090	<0.00200	<0.010	<0.00090
Fluorene	<0.00100	<0.010	<0.00030	<0.00100	<0.010	<0.00030
Indeno(1,2,3-cd)pyrene	<0.00040	<0.010	<0.00030	<0.00040	<0.010	<0.00030
Naphthalene	<0.00500	<0.010	<0.00300	<0.00500	<0.010	<0.00300
Phenanthrene	<0.00500	<0.010	<0.00060	<0.00500	<0.010	<0.00060
Pyrene	<0.00200	<0.010	<0.00030	<0.00200	<0.010	<0.00030

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives

mg/L = Milligrams per liter µg/L = Micrograms per liter

[redacted] = Detection Limit above TACO

J = Estimated value. Compound detected below the PQL.

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

TABLE 8
Groundwater Analytical Results-Skinner List
Metals
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- IL 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number and Collection Date										
		HMW-25				HMW-26			HMW-27			
	Class I	12/16/03	4/22/04	7/7/04	Dup-001 7/7/04	12/16/03	4/22/04	7/7/04	12/16/03	4/22/04	Dup-01 4/22/04	7/7/04
Metals (mg/L)												
Barium	2	0.318	0.238	0.256	0.257	0.362	0.242	0.222	0.175	0.189	0.198	0.182
Beryllium	0.004	<0.0010	<0.0010	<0.0010	<0.0010	0.0003 J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	0.005	<0.0020	0.0004 J	0.0003J	0.0003J	<0.0020	<0.0020	0.0003J	0.0003 J	<0.0020	<0.0007	<0.0020
Chromium	0.1	0.0098J	0.0061 J	<0.0100	<0.0100	0.0311	0.0041 J	<0.0100	0.0091 J	<0.0100	<0.0100	<0.0100
Cobalt	1	0.0045J	<0.0100	<0.0100	<0.0100	0.0077 J	<0.0100	<0.0100	0.0047 J	0.0089 J	0.0084 J	0.0048J
Nickel	0.1	0.0178	0.0128	0.0087J	0.0107	0.0219	<0.0100	<0.0100	0.0112	0.0175	0.0175	0.0092J
Silver	0.05	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0033 J	<0.0100
Vanadium	0.049	0.0093J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	5	0.210	0.241	0.0838	0.0832	0.276	0.118	0.0258	0.213	0.0800	0.0910	0.0431
Antimony	0.006	<0.0050	0.0023 J	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	0.05	0.0011J	<0.0030	<0.0030	<0.0030	0.0045	0.0065	0.0012J	<0.0030	0.0018 J	0.0012 J	<0.0030
Lead	0.0075	0.0053	<0.0020	<0.0020	<0.0020	0.0159	0.0033	<0.0020	0.0008 J	0.0017 J	0.0026	<0.0020
Selenium	0.05	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
General Chemistry (mg/L)												
Cyanide	0.2	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

µg/L = Micrograms per liter

[] = Detection Limit above TACO

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

TABLE 8
Groundwater Analytical Results-Skinner List
Metals
(Sentinel Wells)

The Hartford Working Group / Hartford, IL
 1190505040 -- Madison County -- IL 000128249

CHEMICAL NAME	Taco Tier 1 Groundwater Remediation Objectives (1)	Sentinel Well Number and Collection Date					
		HMW-28			HMW-29		
	Class I	12/16/03	4/22/04	7/7/04	12/17/03	4/22/04	7/7/04
Metals (mg/L)							
Barium	2	0.107	0.273	0.115	0.139	0.268	0.16
Beryllium	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	0.005	<0.0020	0.0011 J	0.0011J	0.0007 J	0.0009 J	0.0005J
Chromium	0.1	0.0059 J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	1	0.0092 J	0.0145	0.0068J	<0.0100	0.0060 J	0.0025J
Nickel	0.1	0.0221	0.0325	0.0218	0.0038 J	0.0232	0.0073J
Silver	0.05	<0.0100	<0.0100	<0.0100	0.0065 J	<0.0100	<0.0100
Vanadium	0.049	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	5	0.0827	0.0840	0.0741	0.0258	0.136	0.0402
Antimony	0.006	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	0.05	0.0014 J	0.0090	<0.0030	0.0064	0.0066	0.0012J
Lead	0.0075	0.0024	0.0076	0.0028	0.0016 J	0.0238	0.0020J
Selenium	0.05	<0.0060	0.0109	0.0207	<0.0060	<0.0060	<0.0060
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
General Chemistry (mg/L)							
Cyanide	0.2	<0.007	0.004 J	<0.007	<0.007	0.003 J	<0.007

NOTES:

(1) TACO = Illinois EPA's Tiered Approach to Corrective Action Objectives.

mg/L = Milligrams per liter

µg/L = Micrograms per liter

 = Detection Limit above TACO

J = Estimated value. Compound detected below the PQL.

Bold and highlighted values exceed TACO GROs.

NL = No groundwater remediation objective listed in TACO

APPENDIX A

MONITORING WELL INSPECTION REPORT

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Working Group Date(s) of Inspection: 7/14/04
 Project No.: 15-03095, 15-007 Field Personnel: Sam Peterson Marie Mueller

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Additional Comment(s) Below																				
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)									Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Away From Well	Facilitates Access	Standing Water
RW-3	31.69	31.77	-	4	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
RW-4A	26.76	32.84	-	4	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
RW-4	-	27.79	-	4	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-30	-	28.38	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-31	-	28.41	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-32	26.49	27.38 ^{OK}	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-33	26.49	27.79 ^{MGR}	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HB-32	-	31.68	-	2	PVC	N	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-22	27.24	32.55	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-21	19.	19.38	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-7	-	22.60	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HMW-8	26.76	32.55	-	2	PVC	Y	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
HB-33	-	26.23	-	2	PVC	Y	Y	Y	Y	Y	Y						N														
RW-2	29.06	32.78	-	3.5' SS	N	N	Y	Y	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Workings Group
 Project No.: 13-050095-1-007 1B-083 Date(s) of Inspection: 7/14/04
 Field Personnel: Sam Patterson, Heidi Mundy, Carol May

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)								
RW-5	*29.01	29.30	-	4	PVC	N	N	-	-	-	-
HMW-34	28.82	30.77	-	2	PVC	Y	Y	Y	Y	Y	Y
HMW-35	-	27.78	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-36	26.100	31.71	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-37	27.13	28.78	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-2	27.45	27.556	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-1	*19.84	19.84	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-9	2	23.19	23.22	2	PVC	Y	Y	-	Y	Y	Y
HMW-10	27.18	31.16	-	2	PVC	Y	Y	-	Y	Y	Y
IEPA-4	27.68	29.92	-	2	SS	N	N	-	-	-	Y
HMW-3	**	23.60	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-4	-	8.84	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-3	-	18.58	-	2	PVC	Y	Y	-	Y	Y	Y
HMW-14	28.35	29.79	-	2	PVC	Y	Y	-	Y	Y	Y

ADDITIONAL COMMENTS: * top of bio slurping cap - well being used for recovery system pilot test

* Sheen on interphase probe

-redo fl
now
-redo fl
now

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name:

Hartford Working Group
IS-03095, IS-002

Project No.:

Date(s) of Inspection:

7/14/04

Field Personnel:

Marie M. Miller, Heidi Mendigual, Sup. Psh

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing	Security	Protective Cover	Flush Mount	Concrete Pad	Bumper Posts	Grade/Slope	Additional Comment(s) Below																						
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)									Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilities Access	Standing Water	
HB-37	—	29.16	—	2	PVC	Y	Y	Y	Y	—	—	2	PVC	Y	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	—	—	
HMW-20	26.50	32.70	—	2	PVC	Y	Y	—	—	—	—	2	PVC	Y	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	—	—	
HMW-18	28.75	31.44	—	2	PVC	Y	Y	—	—	—	—	2	PVC	Y	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	—	—	
HMW-19	28.56	31.30	—	2	PVC	Y	Y	—	—	—	—	2	PVC	Y	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	—	—	
HB-38	—	26.52	—	2	PVC	N	Y	N	—	—	—	2	PVC	N	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	—	—	
				</																													

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: HARTFORD WORKING GROUP
Project No.: 15-03095.14 - 007

Date(s) of Inspection: 7/14/04
Field Personnel: SAM PETERSON

WELL INTEGRITY INFORMATION

ADDITIONAL COMMENTS:

Appendix B

APPENDIX B

SUMMARY OF INDICATOR PARAMETER MEASUREMENTS OBTAINED DURING JULY 2004 SAMPLING EVENT

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT WORKING GROUP-HMW-25-7-7-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORD WORKING GROUP
 Site Name: HARTFORD WORKING GROUP
 Well ID: HMW-25

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	QED	
Tubing Type:	POLY	
Tubing Diam:	0.5	[cm]
Tubing Length:	11	[m]
Well Depth:	12	[m]
Well Diam:	5	[cm]
Screen Len:	457	[cm]
Screen Depth:	7	[m]
Pump Inlet Depth:	0	[cm]
Water Level (TOC):	8	[m]
Pump Level (TOC):	10	[m]

Final Pumping Rate:	500	[mL/min]
Stable Draw Down:	0	[m]
Total Volume Formula:	Volume = cup (200 mL) + tubing (8.6 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	125.64	[mL]
Actual Total Volume:	125.64	[mL]
Calculated Measurement Interval:	16	[sec]
Actual Measurement Interval:	16	[sec]

Start date/time:	7/7/2004	12:16:20
End date/time:	7/7/2004	12:27:35
Total Time:	115:35:44	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.57	0	211.13	-0.43	1116.41	-0.39	988.02	-0.21	-0.6	-0.11	61.25	0.01	12:26:20
3	6.57	0	210.88	-0.26	1108.18	-8.22	987.81	-0.21	-0.64	-0.05	61.25	0.01	12:26:36
2	6.57	0	210.53	-0.34	1103.74	-4.44	987.39	-0.42	-0.09	0.55	61.27	0.01	12:26:52
1	6.57	0	210.24	-0.3	1101.09	-2.65	988.02	0.63	-0.53	-0.43	61.23	-0.04	12:27:09
0	6.57	0	209.94	-0.3	1093.41	-7.69	987.18	-0.84	-0.58	-0.05	61.22	-0.01	12:27:25

pH Min:	6.57
pH Max:	6.57
ORP Min:	209.94
ORP Max:	211.13
DO Min:	1093.41

DO Max:	1116.41
Cond Min:	987.18
Cond Max:	988.02
Turb Min:	-0.64
Turb Max:	-0.09
Temp Min:	61.22
Temp Max:	61.27

Device Record:

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT WORKING GROUP-HMW-26-7-7-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORT WORKING GROUP
 Site Name: HARTFORT WORKING GROUP
 Well ID: HMW-26

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	QED	
Tubing Type:	POLY	
Tubing Diam:	0.5	[cm]
Tubing Length:	11	[m]
Well Depth:	12	[m]
Well Diam:	5	[cm]
Screen Len:	457	[cm]
Screen Depth:	7.5	[m]
Pump Inlet Depth:	0	[cm]
Water Level (TOC):	7	[m]
Pump Level (TOC):	10	[m]

Final Pumping Rate:	250	[mL/min]	
Stable Draw Down:	0	[m]	
Total Volume Formula:	Volume = cup (200 mL) + tubing (1.7 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)		
Calculated Total Volume:	118.72	[mL]	
Actual Total Volume:	118.72	[mL]	
Calculated Measurement Interval:	29	[sec]	
Actual Measurement Interval:	29	[sec]	

Start date/time:	7/7/2004	14:07:19
End date/time:	7/7/2004	14:23:09
Total Time:	113:45:37	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.58	0	-74.01	-0.6	284.39	-4.3	1567.37	1.04	18.39	0.49	62.95	0.03	14:21:01
3	6.58	0	-74.53	-0.51	278.6	-7.78	1571.59	4.22	16.29	-2.1	62.95	0	14:21:30
2	6.58	0	-74.95	-0.43	268.67	-7.93	1572.65	1.05	15.21	-1.08	62.97	0.02	14:21:58
1	6.58	0	-75.38	-0.43	260.28	-8.39	1573.17	0.52	16.31	1.1	63.05	0.08	14:22:29
0	6.58	0	-75.85	-0.47	245.71	-14.57	1566.29	-6.88	13.11	-3.2	62.95	-0.09	14:22:57

pH Min:	6.58
pH Max:	6.58
ORP Min:	-75.85
ORP Max:	-74.01
DO Min:	245.71

DO Max:	284.39
Cond Min:	1566.29
Cond Max:	1573.17
Turb Min:	13.11
Turb Max:	18.39
Temp Min:	62.95
Temp Max:	63.05

Device Record:

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT WORKING GROUP-HMW-27-7-7-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORD WORKING GROUP
 Site Name: HARTFORD WORKING GROUP
 Well ID: HMW-27

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	QED	
Tubing Type:	POLY	
Tubing Diam:	0.5	[cm]
Tubing Length:	12	[m]
Well Depth:	13	[m]
Well Diam:	5	[cm]
Screen Len:	457	[cm]
Screen Depth:	8.5	[m]
Pump Inlet Depth:	0	[cm]
Water Level (TOC):	8.5	[m]
Pump Level (TOC):	10.5	[m]

Final Pumping Rate:	250	[mL/min]
Stable Draw Down:	0	[m]
Total Volume Formula:	Volume = cup (200 mL) + tubing (1.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	118.82	[mL]
Actual Total Volume:	118.82	[mL]
Calculated Measurement Interval:	29	[sec]
Actual Measurement Interval:	29	[sec]

Start date/time:	7/7/2004	17:35:45
End date/time:	7/7/2004	17:52:34
Total Time:	110:17:54	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.49	0	8.39	-0.73	1849.4	-5.3	1097.83	-0.52	4.33	-2.46	63.58	-0.04	17:50:23
3	6.49	0	7.58	-0.81	1886.26	36.86	1098.61	0.77	3.87	-0.46	63.72	0.13	17:50:53
2	6.49	0	6.98	-0.6	1818.94	-67.31	1097.57	-1.04	4.83	0.96	63.73	0.01	17:51:22
1	6.49	0	6.51	-0.47	1775.6	-43.34	1096.54	-1.03	6.4	1.57	63.57	-0.16	17:51:51
0	6.49	0	5.87	-0.64	1788.48	12.88	1097.57	1.03	7.17	0.77	63.53	-0.03	17:52:21

pH Min:	6.49
pH Max:	6.49
ORP Min:	5.87
ORP Max:	8.39
DO Min:	1775.6

DO Max:	1886.26
Cond Min:	1096.54
Cond Max:	1098.61
Turb Min:	3.87
Turb Max:	7.17
Temp Min:	63.53
Temp Max:	63.73

Device Record:

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT WORKING GROUP-HMW-28-7-7-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORT WORKING GROUP
 Site Name: HARTFORT WORKING GROUP
 Well ID: HMW-28

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	QED	
Tubing Type:	POLY	
Tubing Diam:	0.5	[cm]
Tubing Length:	11	[m]
Well Depth:	12	[m]
Well Diam:	5	[cm]
Screen Len:	457	[cm]
Screen Depth:	8	[m]
Pump Inlet Depth:	0	[cm]
Water Level (TOC):	9	[m]
Pump Level (TOC):	10	[m]

Final Pumping Rate:	250	[mL/min]
Stable Draw Down:	0	[m]
Total Volume Formula:	Volume = cup (200 mL) + tubing (1.7 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	118.72	[mL]
Actual Total Volume:	118.72	[mL]
Calculated Measurement Interval:	29	[sec]
Actual Measurement Interval:	29	[sec]

Start date/time:	7/7/2004	15:24:21
End date/time:	7/7/2004	15:37:26
Total Time:	112:29:57	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.56	-0.04	110.84	1.71	5361.41	-44.52	959.86	0.59	10.21	-1.32	62.36	-0.18	15:35:06
3	6.54	-0.02	110.93	0.08	5275.38	-86.03	959.86	0	12.02	1.81	62.34	-0.02	15:35:36
2	6.53	-0.01	110.29	-0.64	5226.4	-48.98	958.67	-1.19	13.65	1.63	62.21	-0.13	15:36:05
1	6.53	0	109.56	-0.73	5149.22	-77.18	956.5	-2.17	14.53	0.88	62.26	0.04	15:36:35
0	6.53	0	108.53	-1.03	5053.2	-96.03	958.66	2.16	13.17	-1.36	62.42	0.17	15:37:04

pH Min:	6.53
pH Max:	6.56
ORP Min:	108.53
ORP Max:	110.93
DO Min:	5053.2

DO Max:	5361.41
Cond Min:	956.5
Cond Max:	959.86
Turb Min:	10.21
Turb Max:	14.53
Temp Min:	62.21
Temp Max:	62.42

Device Record:

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUP-HARTFORT WORKING GROUP-HMW-29-7-7-2004.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet that's based on a custom template' in Excel help. An example template, InSituLowFlow.xls, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name: NORMAN BOLIVAR
 Company Name: CLAYTON GROUP SERVICES
 Project Name: HARTFORD WORKING GROUP
 Site Name: HARTFORD WORKING GROUP
 Well ID: HMW-29

pH Sensor:	Installed	Target Value	0.1	[pH]
ORP Sensor:	Installed	Target Value	0	[mV]
DO Sensor:	Installed	Target Value	0	[ug/L]
Cond Sensor:	Installed	Target Value	1	[uS/cm]
Turb Sensor:	Installed	Target Value	0.1	[NTU]

Pump Model/Type:	QED	
Tubing Type:	POLY	
Tubing Diam:	0.5	[cm]
Tubing Length:	11	[m]
Well Depth:	12	[m]
Well Diam:	5	[cm]
Screen Len:	457	[cm]
Screen Depth:	8	[m]
Pump Inlet Depth:	0	[cm]
Water Level (TOC):	8.5	[m]
Pump Level (TOC):	10	[m]

Final Pumping Rate:	250	[mL/min]
Stable Draw Down:	0	[m]
Total Volume Formula:	Volume = cup (200 mL) + tubing (1.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	118.82	[mL]
Actual Total Volume:	118.82	[mL]
Calculated Measurement Interval:	29	[sec]
Actual Measurement Interval:	29	[sec]

Start date/time:	7/7/2004	16:42:12
End date/time:	7/7/2004	16:59:08
Total Time:	111:12:37	

Reading #	pH [pH]	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.65	0	-17.87	-1.84	29.92	-16.43	817.97	2.57	127.88	-8.94	61.7	0.17	16:56:51
3	6.65	0	-19.49	-1.63	13.67	-16.24	819.69	1.72	136.43	8.55	61.91	0.2	16:57:20
2	6.65	0	-20.95	-1.45	17.24	3.56	822.29	2.6	136.67	0.24	61.82	-0.09	16:57:50
1	6.65	0	-22.49	-1.54	9.02	-8.22	825.64	3.35	127.49	-9.18	61.69	-0.13	16:58:19
0	6.65	0	-24.03	-1.54	12.42	3.41	830.79	5.15	134.14	6.65	62.12	0.43	16:58:48

pH Min:	6.65
pH Max:	6.65
ORP Min:	-24.03
ORP Max:	-17.87
DO Min:	9.02

DO Max:	29.92
Cond Min:	817.97
Cond Max:	830.79
Turb Min:	127.49
Turb Max:	136.67
Temp Min:	61.69
Temp Max:	62.12

Device Record:

Appendix C

Appendix C

APPENDIX C

LABORATORY ANALYTICAL REPORT – JULY 2004 SAMPLING EVENT



TEKLAB, INC.

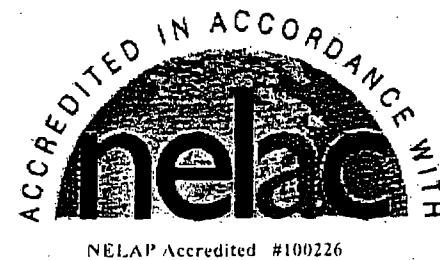
5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

July 16, 2004

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX: (630) 795-1130



NELAP Accredited #100226

RE: 15-03095.15-002

OrderNo. 04070206

Dear Ken Comire:

TEKLAB, INC received 8 samples on 7/8/04 12:47:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "MLA".

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-002
LabOrder: 04070206
Report Date: July 16, 2004

CASE NARRATIVE

Prep Comments for SV_3510_BNA, Sample 04070206-005A: Sep funnel leaked

Qualifiers		
DF - Dilution Factor	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
RL - Reporting Limit	J - Analyte detected below reporting limits	H - Holding time exceeded
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits	D - Diluted out of sample
Surr - Surrogate Standard added by lab	S - Spike Recovery outside accepted recovery limits	MI - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	DNI Did Not Ignite
IDPH - Illinois Department of Public Health	NELAP - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-001
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: DUP-001/040707
Collection Date: 7/7/04
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.257	mg/L	1	7/14/04 3:51:51 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 3:51:51 PM	SAM
Cadmium	NELAP	0.0020	J	0.0003	mg/L	1	7/14/04 3:51:51 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 3:51:51 PM	SAM
Cobalt	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 3:51:51 PM	SAM
Nickel	NELAP	0.0100		0.0107	mg/L	1	7/14/04 3:51:51 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 3:51:51 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 3:51:51 PM	SAM
Zinc	NELAP	0.0100		0.0832	mg/L	1	7/14/04 3:51:51 PM	SAM
<u>SW-846 3020A, METALS BY GFAA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/9/04 6:02:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		110	%REC	1	7/9/04 6:02:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		96.0	%REC	1	7/9/04 6:02:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		59.0	%REC	1	7/9/04 6:02:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		82.0	%REC	1	7/9/04 6:02:00 PM	SML
Surr: p-Terphenyl-d14		29.7-117		76.0	%REC	1	7/9/04 6:02:00 PM	SML
Surr: Phenol-d5		8.57-54.5		34.0	%REC	1	7/9/04 6:02:00 PM	SML
<u>SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-001
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: DUP-001/040707
Collection Date: 7/7/04
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibeno(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		84.9	%REC	1	7/9/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/9/04 8:40:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		126	%REC	1	7/9/04 8:40:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		96.2	%REC	1	7/9/04 8:40:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-001
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: DUP-001/040707
Collection Date: 7/7/04
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Sur: Dibromofluoromethane		88.9-121.2		110	%REC	1	7/9/04 8:40:00 PM	RLH
Sur: Toluene-d8		84.1-114.5		103	%REC	1	7/9/04 8:40:00 PM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 11:30:00 AM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 4:37:17 PM	SMR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-002
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-25/040707
Collection Date: 7/7/04 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B. METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.256	mg/L	1	7/14/04 4:07:50 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 4:07:50 PM	SAM
Cadmium	NELAP	0.0020	J	0.0003	mg/L	1	7/14/04 4:07:50 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 4:07:50 PM	SAM
Cobalt	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 4:07:50 PM	SAM
Nickel	NELAP	0.0100	J	0.0087	mg/L	1	7/14/04 4:07:50 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 4:07:50 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 4:07:50 PM	SAM
Zinc	NELAP	0.0100		0.0838	mg/L	1	7/14/04 4:07:50 PM	SAM
<u>SW-846 3020A. METALS BY GF-AA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C. SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/9/04 6:40:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		96.0	%REC	1	7/9/04 6:40:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		92.0	%REC	1	7/9/04 6:40:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		53.0	%REC	1	7/9/04 6:40:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		78.0	%REC	1	7/9/04 6:40:00 PM	SML
Surr: p-Terphenyl-d4		29.7-117		80.0	%REC	1	7/9/04 6:40:00 PM	SML
Surr: Phenol-d5		8.57-54.5		30.0	%REC	1	7/9/04 6:40:00 PM	SML
<u>SW-846 3510C, 8310. POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-002
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-25/040707
Collection Date: 7/7/04 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		93.9	%REC	1	7/9/04	HE
<u>SW-846 5030, 8260B. VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/9/04 9:11:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		130	%REC	1	7/9/04 9:11:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		96.4	%REC	1	7/9/04 9:11:00 PM	RLH

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-002
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-25/040707
Collection Date: 7/7/04 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		88.9-121.2		111	%REC	1	7/9/04 9:11:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		103	%REC	1	7/9/04 9:11:00 PM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED: 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/13/04 12:38:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 4:47:21 PM	SMR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-003
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-26/040707
Collection Date: 7/7/04 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B. METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.222	mg/L	1	7/14/04 12:12:16 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 12:12:16 PM	SAM
Cadmium	NELAP	0.0020	J	0.0003	mg/L	1	7/14/04 12:12:16 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:12:16 PM	SAM
Cobalt	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:12:16 PM	SAM
Nickel	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:12:16 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:12:16 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:12:16 PM	SAM
Zinc	NELAP	0.0100		0.0258	mg/L	1	7/14/04 12:12:16 PM	SAM
<u>SW-846 3020A. METALS BY GFAA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	J 0.0012	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C. SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/9/04 7:19:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		94.0	%REC	1	7/9/04 7:19:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		90.0	%REC	1	7/9/04 7:19:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		49.0	%REC	1	7/9/04 7:19:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		82.0	%REC	1	7/9/04 7:19:00 PM	SML
Surr: p-Terphenyl-d14		29.7-117		80.0	%REC	1	7/9/04 7:19:00 PM	SML
Surr: Phenol-d5		8.57-54.5		30.0	%REC	1	7/9/04 7:19:00 PM	SML
<u>SW-846 3510C, 8310. POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-003
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-26/040707
Collection Date: 7/7/04 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibeno(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		84.8	%REC	1	7/9/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/9/04 9:42:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		132	%REC	1	7/9/04 9:42:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		95.6	%REC	1	7/9/04 9:42:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-003
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-26/040707
Collection Date: 7/7/04 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		88.9-121.2		113	%REC	1	7/9/04 9:42:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	1	7/9/04 9:42:00 PM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 12:10:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 4:50:43 PM	SMR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-004
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-27/040707
Collection Date: 7/7/04 5:45:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.182	mg/L	1	7/14/04 12:17:37 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 12:17:37 PM	SAM
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	7/14/04 12:17:37 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:17:37 PM	SAM
Cobalt	NELAP	0.0100	J	0.0048	mg/L	1	7/14/04 12:17:37 PM	SAM
Nickel	NELAP	0.0100	J	0.0092	mg/L	1	7/14/04 12:17:37 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:17:37 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:17:37 PM	SAM
Zinc	NELAP	0.0100		0.0431	mg/L	1	7/14/04 12:17:37 PM	SAM
<u>SW-846 3020A, METALS BY GFAA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/14/04	JMF
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/9/04 7:57:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		85.0	%REC	1	7/9/04 7:57:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		78.0	%REC	1	7/9/04 7:57:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		40.0	%REC	1	7/9/04 7:57:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		60.0	%REC	1	7/9/04 7:57:00 PM	SML
Surr: p-Terphenyl-d14		29.7-117		74.0	%REC	1	7/9/04 7:57:00 PM	SML
Surr: Phenol-d5		8.57-54.5		25.0	%REC	1	7/9/04 7:57:00 PM	SML
<u>SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-004
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-27/040707
Collection Date: 7/7/04 5:45:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibenz(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Sur: Terphenyl-d14		62.5-135		92.3	%REC	1	7/9/04	HE
<u>SW-846 5030, 8260B. VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/9/04 10:13:00 PM	RLH
Sur: 1,2-Dichloroethane-d4		84.3-135		131	%REC	1	7/9/04 10:13:00 PM	RLH
Sur: 4-Bromofluorobenzene		81.1-113.3		96.0	%REC	1	7/9/04 10:13:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-004
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-27/040707
Collection Date: 7/7/04 5:45:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surf: Dibromofluoromethane		88.9-121.2		115	%REC	1	7/9/04 10:13:00 PM	RLH
Surf: Toluene-d8		84.1-114.5		103	%REC	1	7/9/04 10:13:00 PM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 12:45:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 4:54:05 PM	SMR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-005
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-28/040707
Collection Date: 7/7/04 3:33:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.115	mg/L	1	7/14/04 12:22:59 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 12:22:59 PM	SAM
Cadmium	NELAP	0.0020	J	0.0011	mg/L	1	7/14/04 12:22:59 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:22:59 PM	SAM
Cobalt	NELAP	0.0100	J	0.0068	mg/L	1	7/14/04 12:22:59 PM	SAM
Nickel	NELAP	0.0100		0.0218	mg/L	1	7/14/04 12:22:59 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:22:59 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:22:59 PM	SAM
Zinc	NELAP	0.0100		0.0741	mg/L	1	7/14/04 12:22:59 PM	SAM
<u>SW-846 3020A, METALS BY GFAA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	0.0028	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	0.0207	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/12/04 12:16:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		71.0	%REC	1	7/12/04 12:16:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		68.0	%REC	1	7/12/04 12:16:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		29.0	%REC	1	7/12/04 12:16:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		62.0	%REC	1	7/12/04 12:16:00 PM	SML
Surr: p-Terphenyl-d14		29.7-117		50.0	%REC	1	7/12/04 12:16:00 PM	SML
Surr: Phenol-d5		8.57-54.5		17.0	%REC	1	7/12/04 12:16:00 PM	SML
<u>SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-005
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-28/040707
Collection Date: 7/7/04 3:33:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		92.4	%REC	1	7/9/04	HE
<u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/12/04 12:26:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		108	%REC	1	7/12/04 12:26:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		98.2	%REC	1	7/12/04 12:26:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-005
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-28/040707
Collection Date: 7/7/04 3:33:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		88.9-121.2		104	%REC	1	7/12/04 12:26:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	1	7/12/04 12:26:00 AM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 2:13:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 4:57:28 PM	SMR

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-006
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-29/040707
Collection Date: 7/7/04 5:00:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		0.160	mg/L	1	7/14/04 12:38:58 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 12:38:58 PM	SAM
Cadmium	NELAP	0.0020	J	0.0005	mg/L	1	7/14/04 12:38:58 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:38:58 PM	SAM
Cobalt	NELAP	0.0100	J	0.0025	mg/L	1	7/14/04 12:38:58 PM	SAM
Nickel	NELAP	0.0100	J	0.0073	mg/L	1	7/14/04 12:38:58 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:38:58 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:38:58 PM	SAM
Zinc	NELAP	0.0100		0.0402	mg/L	1	7/14/04 12:38:58 PM	SAM
<u>SW-846 3020A, METALS BY GFQA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	J 0.0012	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	J 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/12/04 12:55:00 PM	SML
Surr: 2,4,6-Tribromophenol		20.3-141		84.0	%REC	1	7/12/04 12:55:00 PM	SML
Surr: 2-Fluorobiphenyl		49.7-127		76.0	%REC	1	7/12/04 12:55:00 PM	SML
Surr: 2-Fluorophenol		21.6-65.9		37.0	%REC	1	7/12/04 12:55:00 PM	SML
Surr: Nitrobenzene-d5		47.4-116		58.0	%REC	1	7/12/04 12:55:00 PM	SML
Surr: p-Terphenyl-d14		29.7-117		62.0	%REC	1	7/12/04 12:55:00 PM	SML
Surr: Phenol-d5		8.57-54.5		22.0	%REC	1	7/12/04 12:55:00 PM	SML
<u>SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-006
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-29/040707
Collection Date: 7/7/04 5:00:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		91.0	%REC	1	7/9/04	HE
<u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/12/04 12:57:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		113	%REC	1	7/12/04 12:57:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		95.8	%REC	1	7/12/04 12:57:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-006
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: HMW-29/040707
Collection Date: 7/7/04 5:00:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		88.9-121.2		105	%REC	1	7/12/04 12:57:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		101	%REC	1	7/12/04 12:57:00 AM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 1:22:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 5:00:51 PM	SMR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-007
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: EQB-001/040707
Collection Date: 7/7/04 1:35:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 3005A, 6010B. METALS BY ICP (TOTAL)</u>								
Barium	NELAP	0.0050		< 0.0050	mg/L	1	7/14/04 12:44:21 PM	SAM
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	7/14/04 12:44:21 PM	SAM
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	7/14/04 12:44:21 PM	SAM
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
Cobalt	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
Nickel	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
Silver	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	7/14/04 12:44:21 PM	SAM
<u>SW-846 3020A. METALS BY GFAA (TOTAL)</u>								
Antimony	7041	NELAP	0.0050	< 0.0050	mg/L	1	7/13/04	JMF
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	7/12/04	SRS
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	7/12/04	SRS
Selenium	7740	NELAP	0.0060	< 0.0060	mg/L	1	7/9/04	JMF
<u>SW-846 3510C, 8270C. SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
2,4-Dimethylphenol	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
2,4-Dinitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
4-Nitrophenol	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.006		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Di-n-butyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Diethyl phthalate	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Dimethyl phthalate		0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
m,p-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
o-Cresol	NELAP	0.010		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Phenol	NELAP	0.005		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Pyridine	NELAP	0.020		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Quinoline		0.005		ND	mg/L	1	7/12/04 1:34:00 PM	SML
Sur: 2,4,6-Tribromophenol		20.3-141		113	%REC	1	7/12/04 1:34:00 PM	SML
Sur: 2-Fluorobiphenyl		49.7-127		106	%REC	1	7/12/04 1:34:00 PM	SML
Sur: 2-Fluorophenol		21.6-65.9		55.0	%REC	1	7/12/04 1:34:00 PM	SML
Sur: Nitrobenzene-d5		47.4-116		84.0	%REC	1	7/12/04 1:34:00 PM	SML
Sur: p-Terphenyl-d14		29.7-117		96.0	%REC	1	7/12/04 1:34:00 PM	SML
Sur: Phenol-d5		8.57-54.5		32.0	%REC	1	7/12/04 1:34:00 PM	SML
<u>SW-846 3510C, 8310. POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC</u>								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-007
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: EQB-001/040707
Collection Date: 7/7/04 1:35:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/9/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/9/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/9/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/9/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/9/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/9/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/9/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/9/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/9/04	HE
Surr: Terphenyl-d14		62.5-135		89.4	%REC	1	7/9/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Toluene	NELAP	5.0	J	1.0	µg/L	1	7/12/04 1:29:00 AM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/12/04 1:29:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		122	%REC	1	7/12/04 1:29:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		95.2	%REC	1	7/12/04 1:29:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-007
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: EQB-001/040707
Collection Date: 7/7/04 1:35:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		88.9-121.2		110	%REC	1	7/12/04 1:29:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		100	%REC	1	7/12/04 1:29:00 AM	RLH
<u>SW-846 7470A (TOTAL)</u>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	7/13/04	JMW
<u>SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID</u>								
1,4-Dioxane		0.50		ND	mg/L	1	7/9/04 1:43:00 PM	CJS
<u>SW-846 9010, 9012A (TOTAL)</u>								
Cyanide		0.007		< 0.007	mg/L	1	7/8/04 5:04:13 PM	SMR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04070206
Lab ID: 04070206-008
Report Date: 16-Jul-04

Client Project: 15-03095.15-002
Client Sample ID: TB-001/040707
Collection Date: 7/2/04 4:35:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
2-Butanone	NELAP	25.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Benzene	NELAP	2.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Carbon disulfide	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Chlorobenzene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Chloroform	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
o-Xylene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Styrene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Trichloroethene	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/12/04 2:00:00 AM	RLH
Sur: 1,2-Dichloroethane-d4		84.3-135		129	%REC	1	7/12/04 2:00:00 AM	RLH
Sur: 4-Bromofluorobenzene		81.1-113.3		96.6	%REC	1	7/12/04 2:00:00 AM	RLH
Sur: Dibromofluoromethane		88.9-121.2		110	%REC	1	7/12/04 2:00:00 AM	RLH
Sur: Toluene-d8		84.1-114.5		103	%REC	1	7/12/04 2:00:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-002
Lab Order: 04070206
Date Received: 7/8/04

WORK ORDER SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
04070206-001A	DUP-001/040707		7/7/04
04070206-001B	DUP-001/040707		7/7/04
04070206-001C	DUP-001/040707		7/7/04
04070206-001D	DUP-001/040707		7/7/04
04070206-001E	DUP-001/040707		7/7/04
04070206-002A	HMW-25/040707		7/7/04 10:00:00 AM
04070206-002B	HMW-25/040707		7/7/04 10:00:00 AM
04070206-002C	HMW-25/040707		7/7/04 10:00:00 AM
04070206-002D	HMW-25/040707		7/7/04 10:00:00 AM
04070206-002E	HMW-25/040707		7/7/04 10:00:00 AM
04070206-003A	HMW-26/040707		7/7/04 2:25:00 PM
04070206-003B	HMW-26/040707		7/7/04 2:25:00 PM
04070206-003C	HMW-26/040707		7/7/04 2:25:00 PM
04070206-003D	HMW-26/040707		7/7/04 2:25:00 PM
04070206-003E	HMW-26/040707		7/7/04 2:25:00 PM
04070206-004A	HMW-27/040707		7/7/04 5:45:00 PM
04070206-004B	HMW-27/040707		7/7/04 5:45:00 PM
04070206-004C	HMW-27/040707		7/7/04 5:45:00 PM
04070206-004D	HMW-27/040707		7/7/04 5:45:00 PM
04070206-004E	HMW-27/040707		7/7/04 5:45:00 PM
04070206-005A	HMW-28/040707		7/7/04 3:33:00 PM
04070206-005B	HMW-28/040707		7/7/04 3:33:00 PM
04070206-005C	HMW-28/040707		7/7/04 3:33:00 PM
04070206-005D	HMW-28/040707		7/7/04 3:33:00 PM
04070206-005E	HMW-28/040707		7/7/04 3:33:00 PM
04070206-006A	HMW-29/040707		7/7/04 5:00:00 PM
04070206-006B	HMW-29/040707		7/7/04 5:00:00 PM
04070206-006C	HMW-29/040707		7/7/04 5:00:00 PM
04070206-006D	HMW-29/040707		7/7/04 5:00:00 PM
04070206-006E	HMW-29/040707		7/7/04 5:00:00 PM
04070206-007A	EQB-001/040707		7/7/04 1:35:00 PM
04070206-007B	EQB-001/040707		7/7/04 1:35:00 PM
04070206-007C	EQB-001/040707		7/7/04 1:35:00 PM
04070206-007D	EQB-001/040707		7/7/04 1:35:00 PM
04070206-007E	EQB-001/040707		7/7/04 1:35:00 PM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: Clayton Group Services

WORK ORDER SAMPLE SUMMARY

Project: 15-03095.15-002

Lab Order: 04070206

Date: 16-Jul-04

Date Received: 7/8/04

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
04070206-008A	TB-001/040707		7/2/04 4:35:00 PM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-002
Lab Order: 04070206
Date Received: 7/8/04 12:47:00 PM

DATES REPORT

Date: 16-Jul-04

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
04070206-001A	DUP-001/040707	7/7/04	Groundwater	BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by ICP (Total) Cyanide, Aqueous (Total)	7/8/04	7/9/04	7/9/04
04070206-001B				Volatile Organics, Aqueous, by GC/MS	7/9/04	7/9/04	7/13/04
04070206-001C				1,4-Dioxane, Aqueous, by GC/FID	7/9/04	7/9/04	7/13/04
04070206-002A	HMW-25/040707			BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by ICP (Total) Cyanide, Aqueous (Total)	7/8/04	7/9/04	7/9/04
04070206-002B				Volatile Organics, Aqueous, by GC/MS	7/9/04	7/9/04	7/13/04
04070206-002C				1,4-Dioxane, Aqueous, by GC/FID	7/9/04	7/9/04	7/13/04
04070206-002D				BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by ICP (Total) Cyanide, Aqueous (Total)	7/8/04	7/9/04	7/9/04
04070206-002E				Volatile Organics, Aqueous, by GC/MS	7/9/04	7/9/04	7/13/04
04070206-003A	HMW-26/040707			1,4-Dioxane, Aqueous, by GC/FID	7/8/04	7/9/04	7/9/04
04070206-003B				BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by ICP (Total) Cyanide, Aqueous (Total)	7/9/04	7/9/04	7/13/04
04070206-003C				Volatile Organics, Aqueous, by GC/MS	7/9/04	7/9/04	7/13/04
04070206-003D				1,4-Dioxane, Aqueous, by GC/FID	7/9/04	7/9/04	7/9/04
04070206-003E				BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total)	7/8/04	7/9/04	7/9/04
04070206-004A	HMW-27/040707			Volatile Organics, Aqueous, by GC/MS	7/9/04	7/9/04	7/13/04
04070206-004B				1,4-Dioxane, Aqueous, by GC/FID	7/9/04	7/9/04	7/13/04
				BNAs, Aqueous, by GC/MS PNAs, Aqueous, by HPLC Mercury, Aqueous, (Total)	7/12/04	7/12/04	7/13/04

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-002
Lab Order: 04070206
Date Received: 7/8/04 12:47:00 PM

DATES REPORT

Date: 16-Jul-04

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
04070206-004B	HMW-27/040707	7/7/04	Groundwater	Metals, Aqueous, by GFAA (Total)	7/8/04		7/14/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/9/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by ICP (Total)	7/12/04		7/14/04
04070206-004C				Cyanide, Aqueous (Total)			7/8/04
04070206-004D				Volatile Organics, Aqueous, by GC/MS	7/9/04		7/9/04
04070206-004E				1,4-Dioxane, Aqueous, by GC/FID			7/9/04
04070206-005A	HMW-28/040707			BNAs, Aqueous, by GC/MS	7/8/04		7/12/04
				PNAs, Aqueous, by HPLC	7/9/04		7/9/04
04070206-005B				Mercury, Aqueous, (Total)	7/13/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/9/04
				Metals, Aqueous, by ICP (Total)	7/12/04		7/14/04
04070206-005C				Cyanide, Aqueous (Total)			7/8/04
04070206-005D				Volatile Organics, Aqueous, by GC/MS	7/11/04		7/12/04
04070206-005E				1,4-Dioxane, Aqueous, by GC/FID			7/9/04
04070206-006A	HMW-29/040707			BNAs, Aqueous, by GC/MS	7/8/04		7/12/04
				PNAs, Aqueous, by HPLC	7/9/04		7/9/04
04070206-006B				Mercury, Aqueous, (Total)	7/13/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/9/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04
				Metals, Aqueous, by ICP (Total)	7/12/04		7/14/04
04070206-006C				Cyanide, Aqueous (Total)			7/8/04
04070206-006D				Volatile Organics, Aqueous, by GC/MS	7/11/04		7/12/04
04070206-006E				1,4-Dioxane, Aqueous, by GC/FID			7/9/04
04070206-007A	EQB-001/040707			BNAs, Aqueous, by GC/MS	7/8/04		7/12/04
				PNAs, Aqueous, by HPLC	7/9/04		7/9/04
04070206-007B				Mercury, Aqueous, (Total)	7/13/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/9/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/13/04
				Metals, Aqueous, by GFAA (Total)	7/8/04		7/12/04

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: Clayton Group Services

DATES REPORT

Project: 15-03095.15-002

Date: 16-Jul-04

Lab Order: 04070206

Date Received: 7/8/04 12:47:00 PM

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
04070206-007B	EQB-001/040707	7/7/04	Groundwater	Metals, Aqueous, by GFAA (Total) Metals, Aqueous, by ICP (Total)	7/8/04	7/12/04	7/12/04
04070206-007C				Cyanide, Aqueous (Total)	7/12/04	7/14/04	7/8/04
04070206-007D				Volatile Organics, Aqueous, by GC/MS	7/11/04	7/12/04	7/12/04
04070206-007E				1,4-Dioxane, Aqueous, by GC/FID		7/9/04	
04070206-008A	TB-001/040707	7/2/04	Trip Blank	Volatile Organics, Aqueous, by GC/MS	7/11/04	7/12/04	7/12/04

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: A_TCN_S_AT

Sample ID: MB-R53276	SampType: MBLK	TestCode: A_TCN_S_AT	Units: mg/L	Prep Date:			Run ID: AUTOANALYZER 1_040				
Client ID: ZZZZZ	Batch ID: R53276	TestNo: SW9012A		Analysis Date: 7/8/04			SeqNo: 795819				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.007									
Sample ID: LCS-R53276	SampType: LCS	TestCode: A_TCN_S_AT	Units: mg/L	Prep Date:			Run ID: AUTOANALYZER 1_040				
Client ID: ZZZZZ	Batch ID: R53276	TestNo: SW9012A		Analysis Date: 7/8/04			SeqNo: 795824				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.103	0.007	0.1	0	103	85	115	0	0		
Sample ID: 04070206-001C MS	SampType: MS	TestCode: A_TCN_S_AT	Units: mg/L	Prep Date:			Run ID: AUTOANALYZER 1_040				
Client ID: DUP-001/040707	Batch ID: R53276	TestNo: SW9012A		Analysis Date: 7/8/04			SeqNo: 790924				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.089	0.007	0.1	0	89	85	115	0	0		
Sample ID: 04070206-001C MSD	SampType: MSD	TestCode: A_TCN_S_AT	Units: mg/L	Prep Date:			Run ID: AUTOANALYZER 1_040				
Client ID: DUP-001/040707	Batch ID: R53276	TestNo: SW9012A		Analysis Date: 7/8/04			SeqNo: 790925				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.086	0.007	0.1	0	86	85	115	0.089	3.42	15	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: MB-20917	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040709A						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	< 0.0030	0.0030	0.003	0	0	-100	100	0	0	J
Sample ID: MB-20917	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709A						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	< 0.0060	0.0060	0.006	0	0	-100	100	0	0	
Sample ID: MB-20917	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040709B						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0013	0.0020	0.002	0	65	-100	100	0	0	J
Sample ID: MB-20917	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709B						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	
Sample ID: LCS-20917	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040709A						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0147	0.0030	0.015	0	98	85	115	0	0	
Sample ID: LCS-20917	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709A						
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: LCS-20917	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709A
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791634
Analyte					
Selenium	7740	Result	PQL	SPK value	SPK Ref Val
			0.0312	0.0060	0.03
				0	104
				85	115
				0	0
Sample ID: LCS-20917	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040709B
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791639
Analyte					
Lead	7421	Result	PQL	SPK value	SPK Ref Val
			0.0162	0.0020	0.015
				0	108
				85	115
				0	0
Sample ID: LCS-20917	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709B
Client ID: ZZZZZ	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791754
Analyte					
Antimony	7041	Result	PQL	SPK value	SPK Ref Val
			0.0263	0.0050	0.03
				0	87.7
				85	115
				0	0
Sample ID: 04070206-004BMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040709A
Client ID: HMW-27/040707	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04	SeqNo: 791621
Analyte					
Selenium	7740	Result	PQL	SPK value	SPK Ref Val
			0.0368	0.0060	0.03
				0	123
				70	130
				0	0
Sample ID: 04070206-004BMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040712B
Client ID: HMW-27/040707	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/12/04	SeqNo: 792453
Analyte					
Lead	7421	Result	PQL	SPK value	SPK Ref Val
			0.0192	0.0020	0.015
				0	128
				70	130
				0	0
Sample ID: 04070206-004BMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA_040712C
Client ID: HMW-27/040707	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/12/04	SeqNo: 792614
Analyte					

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: 04070206-004BMS		SampType: MS	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA_040712C				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/12/04		SeqNo: 792614					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0149	0.0030	0.015	0	99.3	70	130	0	0	0	
Sample ID: 04070206-004BMS		SampType: MS	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA-2_040714A				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/14/04		SeqNo: 794147					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0367	0.0050	0.03	0	122	70	130	0	0	0	
Sample ID: 04070206-004BMSD		SampType: MSD	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA-2_040709A				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/9/04		SeqNo: 791629					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0376	0.0060	0.03	0	125	70	130	0.0368	2.15	15	
Sample ID: 04070206-004BMSD		SampType: MSD	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA_040712B				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/12/04		SeqNo: 792454					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0191	0.0020	0.015	0	127	70	130	0.0192	0.523	15	
Sample ID: 04070206-004BMSD		SampType: MSD	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA_040712C				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/12/04		SeqNo: 792615					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0153	0.0030	0.015	0	102	70	130	0.0149	2.85	15	
Sample ID: 04070206-004BMSD		SampType: MSD	TestCode: M_AQ_GF_ST		Units: mg/L	Prep Date: 7/8/04		Run ID: GFAA-2_040714A				
Client ID: HMW-27/040707		Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/14/04		SeqNo: 794148					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: 04070206-004BMSD	SampType: MSD	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: GFAA-2_040714A							
Client ID: HMW-27/040707	Batch ID: 20917	TestNo: SW7000 G		Analysis Date: 7/14/04	SeqNo: 794148							
Analyte												
Antimony	7041	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: MB-20918	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040709B						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/9/04	SeqNo: 791589						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	0	
Beryllium	< 0.0010	0.0010	0.001	0	0	-100	100	0	0	0	
Cadmium	< 0.0020	0.0020	0.002	0	0	-100	100	0	0	0	
Chromium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Cobalt	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Nickel	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Silver	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Vanadium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Zinc	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Sample ID: MB-20918	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040713D						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/13/04	SeqNo: 793453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	0	
Cadmium	< 0.0020	0.0020	0.002	0	0	-100	100	0	0	0	
Chromium	0.0046	0.0100	0.01	0	46	-100	100	0	0	0	J
Nickel	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Silver	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Zinc	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Sample ID: MB-20951	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	0	
Beryllium	< 0.0010	0.0010	0.001	0	0	-100	100	0	0	0	
Cadmium	< 0.0020	0.0020	0.002	0	0	-100	100	0	0	0	
Chromium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Cobalt	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Nickel	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: MB-20951	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794057						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Silver	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Vanadium	0.0036	0.0100	0.01	0	36	-100	100	0	0	0	J
Zinc	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Sample ID: MB-20918	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040714D						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794366						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	0	
Beryllium	< 0.0010	0.0010	0.001	0	0	-100	100	0	0	0	
Cadmium	< 0.0020	0.0020	0.002	0	0	-100	100	0	0	0	
Chromium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Cobalt	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Nickel	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Silver	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Vanadium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Zinc	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Sample ID: MB-20951	SampType: MBLK	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040715A						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/15/04	SeqNo: 794913						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	< 0.0050	0.0050	0.005	0	0	-100	100	0	0	0	
Cadmium	< 0.0020	0.0020	0.002	0	0	-100	100	0	0	0	
Chromium	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Silver	< 0.0100	0.0100	0.01	0	0	-100	100	0	0	0	
Sample ID: LCS-20918	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040709B						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/9/04	SeqNo: 791588						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: LCS-20918	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040709B						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/9/04	SeqNo: 791588						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.1	0.0050	2	0	105	85	115	0	0	0	
Beryllium	0.0521	0.0010	0.05	0	104	85	115	0	0	0	
Cadmium	0.0535	0.0020	0.05	0	107	85	115	0	0	0	
Chromium	0.203	0.0100	0.2	0	102	85	115	0	0	0	
Cobalt	0.512	0.0100	0.5	0	102	85	115	0	0	0	
Nickel	0.528	0.0100	0.5	0	106	85	115	0	0	0	
Silver	0.0449	0.0100	0.05	0	89.8	85	115	0	0	0	
Vanadium	0.509	0.0100	0.5	0	102	85	115	0	0	0	
Zinc	0.511	0.0100	0.5	0	102	85	115	0	0	0	
Sample ID: LCS-20918	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040713D						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/13/04	SeqNo: 793452						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.03	0.0050	2	0	102	85	115	0	0	0	
Cadmium	0.0511	0.0020	0.05	0	102	85	115	0	0	0	
Chromium	0.225	0.0100	0.2	0	112	85	115	0	0	0	
Nickel	0.511	0.0100	0.5	0	102	85	115	0	0	0	
Silver	0.051	0.0100	0.05	0	102	85	115	0	0	0	
Zinc	0.512	0.0100	0.5	0	102	85	115	0	0	0	
Sample ID: LCS-20951	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794056						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.12	0.0050	2	0	106	85	115	0	0	0	
Beryllium	0.0518	0.0010	0.05	0	104	85	115	0	0	0	
Cadmium	0.0546	0.0020	0.05	0	109	85	115	0	0	0	
Chromium	0.208	0.0100	0.2	0	104	85	115	0	0	0	
Cobalt	0.53	0.0100	0.5	0	106	85	115	0	0	0	
Nickel	0.542	0.0100	0.5	0	108	85	115	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: LCS-20951	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794056						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Silver	0.0516	0.0100	0.05	0	103	85	115	0	0	0	
Vanadium	0.518	0.0100	0.5	0.0036	103	85	115	0	0	0	
Zinc	0.517	0.0100	0.5	0	103	85	115	0	0	0	
Sample ID: LCS-20918	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040714D						
Client ID: ZZZZZ	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794365						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.07	0.0050	2	0	104	85	115	0	0	0	
Beryllium	0.0517	0.0010	0.05	0	103	85	115	0	0	0	
Cadmium	0.0503	0.0020	0.05	0	101	85	115	0	0	0	
Chromium	0.198	0.0100	0.2	0	99	85	115	0	0	0	
Cobalt	0.513	0.0100	0.5	0	103	85	115	0	0	0	
Nickel	0.52	0.0100	0.5	0	104	85	115	0	0	0	
Silver	0.0494	0.0100	0.05	0	98.8	85	115	0	0	0	
Vanadium	0.519	0.0100	0.5	0	104	85	115	0	0	0	
Zinc	0.514	0.0100	0.5	0	103	85	115	0	0	0	
Sample ID: LCS-20951	SampType: LCS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040715A						
Client ID: ZZZZZ	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/15/04	SeqNo: 794910						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.01	0.0050	2	0	101	85	115	0	0	0	
Cadmium	0.0499	0.0020	0.05	0	99.8	85	115	0	0	0	
Chromium	0.206	0.0100	0.2	0	103	85	115	0	0	0	
Silver	0.0438	0.0100	0.05	0	87.6	85	115	0	0	0	
Sample ID: 04070206-005BMS	SampType: MS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: HMW-28/040707	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794061						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: 04070206-005BMS	SampType: MS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: HMW-28/040707	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794061						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.16	0.0050	2	0.115	102	75	125	0	0	0	
Beryllium	0.0501	0.0010	0.05	0	100	75	125	0	0	0	
Cadmium	0.0552	0.0020	0.05	0	110	75	125	0	0	0	
Chromium	0.206	0.0100	0.2	0	103	75	125	0	0	0	
Cobalt	0.508	0.0100	0.5	0	102	75	125	0	0	0	
Nickel	0.535	0.0100	0.5	0.0218	103	75	125	0	0	0	
Silver	0.0446	0.0100	0.05	0	89.2	75	125	0	0	0	
Vanadium	0.499	0.0100	0.5	0	99.8	75	125	0	0	0	
Zinc	0.569	0.0100	0.5	0.0741	99	75	125	0	0	0	
Sample ID: 04070206-001BMS	SampType: MS	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040714D						
Client ID: DUP-001/040707	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794368						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.16	0.0050	2	0.257	95.2	75	125	0	0	0	
Beryllium	0.049	0.0010	0.05	0	98	75	125	0	0	0	
Cadmium	0.0479	0.0020	0.05	0.0003	95.2	75	125	0	0	0	
Chromium	0.21	0.0100	0.2	0	105	75	125	0	0	0	
Cobalt	0.48	0.0100	0.5	0	96	75	125	0	0	0	
Nickel	0.484	0.0100	0.5	0.0107	94.7	75	125	0	0	0	
Silver	0.051	0.0100	0.05	0	102	75	125	0	0	0	
Vanadium	0.49	0.0100	0.5	0	98	75	125	0	0	0	
Zinc	0.578	0.0100	0.5	0.0832	99	75	125	0	0	0	
Sample ID: 04070206-005BMSD	SampType: MSD	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: HMW-28/040707	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794062						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual											
Barium	2.14	0.0050	2	0.115	101	75	125	2.16	0.930	15	
Beryllium	0.0501	0.0010	0.05	0	100	75	125	0.0501	0	15	
Cadmium	0.0546	0.0020	0.05	0	109	75	125	0.0552	1.09	15	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: 04070206-005BMSD	SampType: MSD	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/12/04	Run ID: ICP_040714B						
Client ID: HMW-28/040707	Batch ID: 20951	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794062						
<hr/>											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.2	0.0100	0.2	0	100	75	125	0.206	2.95	15	
Cobalt	0.504	0.0100	0.5	0	101	75	125	0.508	0.791	15	
Nickel	0.531	0.0100	0.5	0.0218	102	75	125	0.535	0.751	15	
Silver	0.0457	0.0100	0.05	0	91.4	75	125	0.0446	2.44	15	
Vanadium	0.498	0.0100	0.5	0	99.6	75	125	0.499	0.201	15	
Zinc	0.564	0.0100	0.5	0.0741	98	75	125	0.569	0.882	15	
Sample ID: 04070206-001BMSD	SampType: MSD	TestCode: M_AQ_ICP_ST	Units: mg/L	Prep Date: 7/8/04	Run ID: ICP_040714D						
Client ID: DUP-001/040707	Batch ID: 20918	TestNo: SW6010B		Analysis Date: 7/14/04	SeqNo: 794369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.17	0.0050	2	0.257	95.7	75	125	2.16	0.461	15	
Beryllium	0.0495	0.0010	0.05	0	99	75	125	0.049	1.02	15	
Cadmium	0.0476	0.0020	0.05	0.0003	94.6	75	125	0.0479	0.628	15	
Chromium	0.202	0.0100	0.2	0	101	75	125	0.21	3.88	15	
Cobalt	0.478	0.0100	0.5	0	95.6	75	125	0.48	0.417	15	
Nickel	0.487	0.0100	0.5	0.0107	95.3	75	125	0.484	0.618	15	
Silver	0.0536	0.0100	0.05	0	107	75	125	0.051	4.97	15	
Vanadium	0.492	0.0100	0.5	0	98.4	75	125	0.49	0.407	15	
Zinc	0.576	0.0100	0.5	0.0832	98.6	75	125	0.578	0.346	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_S

Sample ID: MB-20973	SampType: MBLK	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 7/13/04	Run ID: CVAA_040713A						
Client ID: ZZZZZ	Batch ID: 20973	TestNo: SW7470 A		Analysis Date: 7/13/04	SeqNo: 793665						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.00020	0.0002	0	0	-100	100	0	0	0	
Sample ID: LCS-20973	SampType: LCS	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 7/13/04	Run ID: CVAA_040713A						
Client ID: ZZZZZ	Batch ID: 20973	TestNo: SW7470 A		Analysis Date: 7/13/04	SeqNo: 793664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00478	0.00020	0.005	0	95.6	85	115	0	0	0	
Sample ID: 04070206-002BMS	SampType: MS	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 7/13/04	Run ID: CVAA_040713A						
Client ID: HMW-25/040707	Batch ID: 20973	TestNo: SW7470 A		Analysis Date: 7/13/04	SeqNo: 793674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00491	0.00020	0.005	0	98.2	75	125	0	0	0	
Sample ID: 04070206-002BMSD	SampType: MSD	TestCode: M_HG_AQ_S	Units: mg/L	Prep Date: 7/13/04	Run ID: CVAA_040713A						
Client ID: HMW-25/040707	Batch ID: 20973	TestNo: SW7470 A		Analysis Date: 7/13/04	SeqNo: 793675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00502	0.00020	0.005	0	100	75	125	0.00491	2.22	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: MB-20916	SampType: MBLK	TestCode: SV_8270S_W	Units: mg/L	Prep Date: 7/8/04	Run ID: 5971 INST. B_040709A
Client ID: ZZZZZ	Batch ID: 20916	TestNo: SW8270C		Analysis Date: 7/9/04	SeqNo: 791757
Analyte					
2,4-Dimethylphenol	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.010				
2,4-Dinitrophenol		ND	0.010		
4-Nitrophenol		ND	0.010		
Bis(2-ethylhexyl)phthalate		ND	0.006		
Di-n-butyl phthalate		ND	0.010		
Diethyl phthalate		ND	0.010		
Dimethyl phthalate		ND	0.010		
m,p-Cresol		ND	0.010		
o-Cresol		ND	0.010		
Phenol		ND	0.005		
Pyridine		ND	0.020		
Quinoline		ND	0.005		
Surr: 2,4,6-Tribromophenol	0.104	0	0.1	0	104
Surr: 2-Fluorobiphenyl	0.047	0	0.05	0	94
Surr: 2-Fluorophenol	0.055	0	0.1	0	55
Surr: Nitrobenzene-d5	0.041	0	0.05	0	82
Surr: p-Terphenyl-d14	0.048	0	0.05	0	96
Surr: Phenol-d5	0.034	0	0.1	0	34
					61
					119
					0
					0
					63.2
					103
					0
					0
					29.4
					68.9
					0
					0
					55.2
					110
					0
					0
					71.2
					114
					0
					0
					22.2
					48.9
					0
					0

Sample ID: LCS-20916	SampType: LCS	TestCode: SV_8270S_W	Units: mg/L	Prep Date: 7/8/04	Run ID: 5971 INST. B_040709A
Client ID: ZZZZZ	Batch ID: 20916	TestNo: SW8270C		Analysis Date: 7/9/04	SeqNo: 791758
Analyte					
4-Nitrophenol	Result	PQL	SPK value	SPK Ref Val	%REC
0.037	0.010	0.1	0	37	16.9
Phenol		0.005	0.1	0	30
Surr: 2,4,6-Tribromophenol	0.115	0	0.1	0	115
Surr: 2-Fluorobiphenyl	0.049	0	0.05	0	98
Surr: 2-Fluorophenol	0.053	0	0.1	0	53
Surr: Nitrobenzene-d5	0.046	0	0.05	0	92
Surr: p-Terphenyl-d14	0.055	0	0.05	0	110
Surr: Phenol-d5	0.034	0	0.1	0	34
					60.6
					117
					0
					0
					53.2
					114
					0
					28.6
					66.4
					0
					51.3
					111
					0
					63.3
					123
					0
					23.8
					46.3
					0
					0

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: LCSDUP-20916	SampType: LCSD	TestCode: SV_8270S_W		Units: mg/L		Prep Date: 7/8/04		Run ID: 5971 INST. B_040709A			
Client ID: ZZZZZ	Batch ID: 20916	TestNo: SW8270C				Analysis Date: 7/9/04		SeqNo: 791760			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.037	0.010	0.1	0	37	16.9	45.6	0.037	0	24.1	
Phenol	0.032	0.005	0.1	0	32	22.1	43.8	0.031	3.19	22.5	
Sur: 2,4,6-Tribromophenol	0.114	0	0.1	0	114	60.6	117	0	0	0	
Sur: 2-Fluorobiphenyl	0.042	0	0.05	0	84	53.2	114	0	0	0	
Sur: 2-Fluorophenol	0.05	0	0.1	0	50	28.6	66.4	0	0	0	
Sur: Nitrobenzene-d5	0.036	0	0.05	0	72	51.3	111	0	0	0	
Sur: p-Terphenyl-d14	0.05	0	0.05	0	100	63.3	123	0	0	0	
Sur: Phenol-d5	0.035	0	0.1	0	35	23.8	46.3	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: MB-20919	SampType: MBLK	TestCode: SV_8310S_W		Units: mg/L	Prep Date: 7/9/04		Run ID: HPLC INST. C_040709A				
Client ID: ZZZZZ	Batch ID: 20919	TestNo: SW8310			Analysis Date: 7/9/04		SeqNo: 791250				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.00300									
Anthracene	ND	0.00030									
Benzo(a)anthracene	ND	0.00009									
Benzo(a)pyrene	ND	0.00012									
Benzo(b)fluoranthene	ND	0.00015									
Benzo(k)fluoranthene	ND	0.00015									
Chrysene	ND	0.00045									
Dibenz(a,h)anthracene	ND	0.00018									
Fluoranthene	ND	0.00090									
Fluorene	ND	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.00030									
Naphthalene	ND	0.00300									
Phenanthrene	ND	0.00060									
Pyrene	ND	0.00030									
Surr: Terphenyl-d14	0.00789	0	0.01	0	78.9	71.4	126	0	0		

Sample ID: LCS-20919	SampType: LCS	TestCode: SV_8310S_W		Units: mg/L	Prep Date: 7/9/04		Run ID: HPLC INST. C_040709A				
Client ID: ZZZZZ	Batch ID: 20919	TestNo: SW8310			Analysis Date: 7/9/04		SeqNo: 791248				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0354	0.00300	0.05	0	70.8	55.1	93.1	0	0		
Anthracene	0.00421	0.00030	0.005	0	84.2	73.6	104	0	0		
Benzo(a)anthracene	0.00393	0.00009	0.005	0	78.6	70.2	98.4	0	0		
Benzo(a)pyrene	0.00406	0.00012	0.005	0	81.2	65.5	99.1	0	0		
Benzo(b)fluoranthene	0.00798	0.00015	0.01	0	79.8	71.1	99.6	0	0		
Benzo(k)fluoranthene	0.00407	0.00015	0.005	0	81.4	71.9	109	0	0		
Chrysene	0.00391	0.00045	0.005	0	78.2	70.6	99.3	0	0		
Dibenz(a,h)anthracene	0.01	0.00018	0.01	0	100	75.6	110	0	0		
Fluoranthene	0.00804	0.00090	0.01	0	80.4	71.6	100	0	0		
Fluorene	0.00728	0.00030	0.01	0	72.8	54.5	97.6	0	0		
Indeno(1,2,3-cd)pyrene	0.00408	0.00030	0.005	0	81.6	71.6	102	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: LCS-20919	SampType: LCS	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/9/04	Run ID: HPLC INST. C_040709A
Client ID: ZZZZZ	Batch ID: 20919	TestNo: SW8310		Analysis Date: 7/9/04	SeqNo: 791248
Analyte					
Naphthalene	0.0336	0.00300	0.05	0	67.2 43.3 92.6 0 0
Phenanthrene	0.00388	0.00060	0.005	0	77.6 64.3 93.4 0 0
Pyrene	0.0036	0.00030	0.005	0	72 63.8 88.9 0 0
Surr: Terphenyl-d14	0.0085	0	0.01	0	85 77.5 115 0 0
Sample ID: LCSDUP-20919	SampType: LCSD	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/9/04	Run ID: HPLC INST. C_040709A
Client ID: ZZZZZ	Batch ID: 20919	TestNo: SW8310		Analysis Date: 7/9/04	SeqNo: 791249
Analyte					
Acenaphthene	0.0366	0.00300	0.05	0	73.2 55.1 93.1 0.0354 3.33 21.9
Anthracene	0.00434	0.00030	0.005	0	86.8 73.6 104 0.00421 3.04 20
Benzo(a)anthracene	0.00412	0.00009	0.005	0	82.4 70.2 98.4 0.00393 4.72 18.8
Benzo(a)pyrene	0.00417	0.00012	0.005	0	83.4 65.5 99.1 0.00406 2.67 19.8
Benzo(b)fluoranthene	0.00828	0.00015	0.01	0	82.8 71.1 99.6 0.00798 3.69 19
Benzo(k)fluoranthene	0.00422	0.00015	0.005	0	84.4 71.9 109 0.00407 3.62 19.2
Chrysene	0.00402	0.00045	0.005	0	80.4 70.6 99.3 0.00391 2.77 18.2
Dibenzo(a,h)anthracene	0.00981	0.00018	0.01	0	98.1 75.6 110 0.01 1.92 17.6
Fluoranthene	0.00839	0.00090	0.01	0	83.9 71.6 100 0.00804 4.26 18.1
Fluorene	0.00742	0.00030	0.01	0	74.2 54.5 97.6 0.00728 1.90 26.9
Indeno(1,2,3-cd)pyrene	0.00417	0.00030	0.005	0	83.4 71.6 102 0.00408 2.18 19
Naphthalene	0.0343	0.00300	0.05	0	68.6 43.3 92.6 0.0336 2.06 30
Phenanthrene	0.00399	0.00060	0.005	0	79.8 64.3 93.4 0.00388 2.79 20
Pyrene	0.00375	0.00030	0.005	0	75 63.8 88.9 0.0036 4.08 18.9
Surr: Terphenyl-d14	0.00919	0	0.01	0	91.9 77.5 115 0 0 20

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_DIOXANE_W

Sample ID: MB	SampType: MBLK	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040709A						
Client ID: ZZZZZ	Batch ID: R53290	TestNo: SW8015		Analysis Date: 7/9/04	SeqNo: 791185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.50									
Sample ID: MB	SampType: MBLK	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040713A						
Client ID: ZZZZZ	Batch ID: R53411	TestNo: SW8015		Analysis Date: 7/13/04	SeqNo: 792988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.50									
Sample ID: LCS	SampType: LCS	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040709A						
Client ID: ZZZZZ	Batch ID: R53290	TestNo: SW8015		Analysis Date: 7/9/04	SeqNo: 791186						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	42	0.50	50	0	84	80	120	0	0	0	
Sample ID: LCS	SampType: LCS	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040713A						
Client ID: ZZZZZ	Batch ID: R53411	TestNo: SW8015		Analysis Date: 7/13/04	SeqNo: 792989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	44	0.50	50	0	88	80	120	0	0	0	
Sample ID: 04070206-002EMS	SampType: MS	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040713A						
Client ID: HMW-25/040707	Batch ID: R53411	TestNo: SW8015		Analysis Date: 7/13/04	SeqNo: 792990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	44	0.50	50	0	88	80	120	0	0	0	
Sample ID: 04070206-002EMSD	SampType: MSD	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040713A						
Client ID: HMW-25/040707	Batch ID: R53411	TestNo: SW8015		Analysis Date: 7/13/04	SeqNo: 792991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_DIOXANE_W

Sample ID: 04070206-002EMSD	SampType: MSD	TestCode: SV_DIOXANE_W	Units: mg/L	Prep Date:	Run ID: GC INST. I_040713A						
Client ID: HMW-25/040707	Batch ID: R53411	TestNo: SW8015		Analysis Date: 7/13/04	SeqNo: 792991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	42	0.50	50	0	84	80	120	44	4.63	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: MBLK-A040709-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/9/04	Run ID: 5971 INST. A_040709B						
Client ID: ZZZZZ	Batch ID: 20940	TestNo: SW8260B		Analysis Date: 7/9/04	SeqNo: 791704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	25.0									
Benzene	ND	2.0									
Carbon disulfide	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroform	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylenes	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethylene	ND	5.0									
Toluene	ND	5.0									
Trichloroethylene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	57.1	0	50	0	114	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.2	0	50	0	96.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	53.3	0	50	0	107	88.9	121.2	0	0		
Surr: Toluene-d8	52	0	50	0	104	84.1	114.5	0	0		

Sample ID: MBLK-A040711-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/11/04	Run ID: 5971 INST. A_040711A						
Client ID: ZZZZZ	Batch ID: 20957	TestNo: SW8260B		Analysis Date: 7/11/04	SeqNo: 792239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

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CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: MBLK-A040711-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/11/04	Run ID: 5971 INST. A_040711A						
Client ID: ZZZZZ	Batch ID: 20957	TestNo: SW8260B		Analysis Date: 7/11/04	SeqNo: 792239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	25.0									
Benzene	ND	2.0									
Carbon disulfide	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroform	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylenes	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
Trichloroethene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	52.3	0	50	0	105	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.2	0	50	0	98.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	51.4	0	50	0	103	88.9	121.2	0	0		
Surr: Toluene-d8	50.2	0	50	0	100	84.1	114.5	0	0		

Sample ID: LCS-A040709-1	SampType: LCS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/9/04	Run ID: 5971 INST. A_040709B						
Client ID: ZZZZZ	Batch ID: 20940	TestNo: SW8260B		Analysis Date: 7/9/04	SeqNo: 791703						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	48.5	5.0	50	0	97	72.6	132	0	0		
1,2-Dibromoethane	49.9	5.0	50	0	99.8	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: LCS-A040709-1	SampType: LCS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 7/9/04		Run ID: 5971 INST. A_040709B			
Client ID: ZZZZZ	Batch ID: 20940	TestNo: SW8260B				Analysis Date: 7/9/04		SeqNo: 791703			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	47.3	5.0	50	0	94.6	86.6	124	0	0	0	
1,2-Dichloroethane	51.3	5.0	50	0	103	83.5	128	0	0	0	
1,3-Dichlorobenzene	45	5.0	50	0	90	85.3	123	0	0	0	
1,4-Dichlorobenzene	46	5.0	50	0	92	87.7	122	0	0	0	
2-Butanone	49.5	25.0	50	0	99	72.8	129	0	0	0	
Benzene	45.9	2.0	50	0	91.8	77.4	120	0	0	0	
Chlorobenzene	46.7	5.0	50	0	93.4	87.2	117	0	0	0	
Chloroform	48.5	5.0	50	0	97	82.1	123	0	0	0	
Ethylbenzene	48.1	5.0	50	0	96.2	78.5	122	0	0	0	
m,p-Xylenes	47.7	5.0	50	0	95.4	79.4	123	0	0	0	
Methyl tert-butyl ether	48.6	2.0	50	0	97.2	70	130	0	0	0	
o-Xylene	49.5	5.0	50	0	99	83.3	121	0	0	0	
Tetrachloroethylene	39.9	5.0	50	0	79.8	66.7	117	0	0	0	
Toluene	46.5	5.0	50	0	93	81.6	118	0	0	0	
Trichloroethylene	44.5	5.0	50	0	89	79.6	118	0	0	0	
Xylenes, Total	97.2	5.0	100	0	97.2	80.7	122	0	0	0	
Surr: 1,2-Dichloroethane-d4	56.4	0	50	0	113	84.3	136	0	0	0	
Surr: 4-Bromofluorobenzene	50.5	0	50	0	101	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	52.4	0	50	0	105	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.5	0	50	0	101	84.1	114.5	0	0	0	

Sample ID: LCS-A040711-1	SampType: LCS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 7/11/04		Run ID: 5971 INST. A_040711A			
Client ID: ZZZZZ	Batch ID: 20957	TestNo: SW8260B				Analysis Date: 7/11/04		SeqNo: 792241			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	51.5	5.0	50	0	103	72.6	132	0	0	0	
1,2-Dibromoethane	54	5.0	50	0	108	70	130	0	0	0	
1,2-Dichlorobenzene	51.8	5.0	50	0	104	86.6	124	0	0	0	
1,2-Dichloroethane	52	5.0	50	0	104	83.5	128	0	0	0	
1,3-Dichlorobenzene	50.6	5.0	50	0	101	85.3	123	0	0	0	
1,4-Dichlorobenzene	50.4	5.0	50	0	101	87.7	122	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
 Work Order: 04070206
 Project: 15-03095,15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: LCS-A040711-1	SampType: LCS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/11/04	Run ID: 5971 INST. A_040711A						
Client ID: ZZZZZ	Batch ID: 20957	TestNo: SW8260B		Analysis Date: 7/11/04	SeqNo: 792241						
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Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	57	25.0	50	0	114	72.8	129	0	0	0	
Benzene	51.2	2.0	50	0	102	77.4	120	0	0	0	
Chlorobenzene	51.6	5.0	50	0	103	87.2	117	0	0	0	
Chloroform	50.8	5.0	50	0	102	82.1	123	0	0	0	
Ethylbenzene	54	5.0	50	0	108	78.5	122	0	0	0	
m,p-Xylenes	53.3	5.0	50	0	107	79.4	123	0	0	0	
Methyl tert-butyl ether	52.3	2.0	50	0	105	70	130	0	0	0	
o-Xylene	53.2	5.0	50	0	106	83.3	121	0	0	0	
Tetrachloroethylene	44.9	5.0	50	0	89.8	66.7	117	0	0	0	
Toluene	50.9	5.0	50	0	102	81.6	118	0	0	0	
Trichloroethylene	51.1	5.0	50	0	102	79.6	118	0	0	0	
Xylenes, Total	106	5.0	100	0	106	80.7	122	0	0	0	
Surr: 1,2-Dichloroethane-d4	51.8	0	50	0	104	84.3	136	0	0	0	
Surr: 4-Bromofluorobenzene	49.9	0	50	0	99.8	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	50	0	50	0	100	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.5	0	50	0	101	84.1	114.5	0	0	0	

Sample ID: 04070206-004DMS	SampType: MS	TestCode: V_8260S_W	Units: µg/L	Prep Date: 7/9/04	Run ID: 5971 INST. A_040709B						
Client ID: HMW-27/040707	Batch ID: 20940	TestNo: SW8260B		Analysis Date: 7/9/04	SeqNo: 791711						
<hr/>											
<hr/>											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.6	2.0	56	0	101	70.8	122	0	0	0	
Chlorobenzene	53.9	5.0	56	0	96.2	85.6	111	0	0	0	
Ethylbenzene	55.7	5.0	56	0	99.5	81	113	0	0	0	
m,p-Xylenes	55.1	5.0	56	0	98.4	81.2	116	0	0	0	
o-Xylene	57.8	5.0	56	0	103	80.3	115	0	0	0	
Toluene	56.7	5.0	56	0	101	77.2	117	0	0	0	
Trichloroethylene	54.1	5.0	56	0	96.6	73.9	118	0	0	0	
Xylenes, Total	113	5.0	112	0	101	80.3	116	0	0	0	
Surr: 1,2-Dichloroethane-d4	66.4	0	50	0	133	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.3	0	50	0	101	81.1	113.3	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 04070206
Project: 15-03095.15-002

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: 04070206-004DMS	SampType: MS	TestCode: V_8260S_W		Units: µg/L		Prep Date: 7/9/04			Run ID: 5971 INST. A_040709B		
Client ID: HMW-27/040707	Batch ID: 20940	TestNo: SW8260B		Analysis Date: 7/9/04			SeqNo: 791711				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	56.7	0	50	0	113	88.9	121.2	0	0	0	
Surr: Toluene-d8	52.4	0	50	0	105	84.1	114.5	0	0	0	

Sample ID: 04070206-004DMSD	SampType: MSD	TestCode: V_8260S_W		Units: µg/L		Prep Date: 7/9/04			Run ID: 5971 INST. A_040709B		
Client ID: HMW-27/040707	Batch ID: 20940	TestNo: SW8260B		Analysis Date: 7/9/04			SeqNo: 791712				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.5	2.0	56	0	97.3	70.8	122	56.6	3.78	15	
Chlorobenzene	52.1	5.0	56	0	93	85.6	111	53.9	3.40	15	
Ethylbenzene	51.9	5.0	56	0	92.7	81	113	55.7	7.06	15	
m,p-Xylenes	53	5.0	56	0	94.6	81.2	116	55.1	3.89	15	
o-Xylene	56.5	5.0	56	0	101	80.3	115	57.8	2.28	15	
Toluene	54.3	5.0	56	0	97	77.2	117	56.7	4.33	15	
Trichloroethene	52.4	5.0	56	0	93.6	73.9	118	54.1	3.19	15	
Xylenes, Total	110	5.0	112	0	98.2	80.3	116	113	2.70	15	
Surr: 1,2-Dichloroethane-d4	66.8	0	50	0	134	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.9	0	50	0	102	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	56.9	0	50	0	114	88.9	121.2	0	0	0	
Surr: Toluene-d8	52.2	0	50	0	104	84.1	114.5	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
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B - Analyte detected in the associated Method Blank

CHAIN OF CUSTODY

pg. 1 of 4 Work Order # 70206

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: CLAYTON GROUP SERVICES
 Address: 3140 FIVEVIEW ROAD
 City / State / Zip: DOWNTOWN CHICAGO
 Contact: KEN COMINE Phone: (630) 795-3200
 E-Mail: KCOMINE@CLAYTONJR.POP.FX: (630) 795-1130

Are the samples chilled? NO YES (Ice or Blue Ice)Cooler Temperature: 4^{HAB} °C 5.20°CPreserved in: Lab Field HAB

Comments: SEE ATTACHED LIST, TABLE 4

Project Name / Number		Sample Collector's Name								MATRIX		INDICATE ANALYSIS REQUESTED									
15-03095.15-002		NORMAN BOLIVAR								Water	Drinking Water	Soil	Sludge	Sp. Waste	VOCs	1,4-DIOXANE	SUVOCs	Inorganic	Metals	Total	CyA
Requested Due Date		Billing Instructions		# and Type of Containers						UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCl	MeOH	NaHSO ₄	Other				
Lab Use Only	Sample Identification	Date/Time Sampled	PO#																		
YAG70206-001	DUP-001/040707	7/7/04	-	5	1	1		3		X							✓	✓	✓	✓	✓
002	HMW-25/040707	7/7/04	10:00	5	1	1		3		X							✓	✓	✓	✓	✓
003	HMW-26/040707	7/7/04	1425	5	1	1		3		X							✓	✓	✓	✓	✓
004	HMW-27/040707	7/7/04	1745	5	1	1		3		X							✓	✓	✓	✓	✓
005	HMW-28/040707	7/7/04	1533	5	1	1		3		X							✓	✓	✓	✓	✓
006	HMW-29/040707	7/7/04	1700	5	1	1		3		X							✓	✓	✓	✓	✓
007	EGB-001/040707	7/07/04	1335	5	1	1		3		X							✓	✓	✓	✓	✓
008	TB-001/040707	7/07/04	1635	5	1	1		3		X							✓				

Relinquished By	Date / Time	Received By	Date / Time
Norman Bolivar	7/08/04 11:30	Mary Geddes	7/8/04 1222
Heather Barnes	7/08/04 1247		7/8/04 1247

TEKLAB, INC

Sample Receipt Checklist

Client Name CLAYTON GROUP

Date and Time Receive

7/8/04 12:47:00 PM

Work Order Number 04070206

Received by: HAB

Checklist completed by Elizabeth A. Wilson 7/8/04
Signature Date

Reviewed by SAD 7/8/04
Initials Date

Matrix:

Carrier name: Marc Giedeman

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted? _____

Checked by _____

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____
